

SECTION E - PROCEDURES TO PREVENT HAZARDS

This section describes the security procedures and equipment; inspection plan; preventive procedures, structures and equipment; precautions to prevent accidental ignition or reaction; and handling and storage of incompatible wastes at the East Hartford Plant.

1. Security Procedures and Equipment

The unknowing entry of persons or livestock onto the active portion of the plant is prevented by the following measures:

- a. The Concentrated Waste Treatment Plant is surrounded by a fence and signs have been posted near all gates and on all approaches to the facility stating the following:

CAUTION

HAZARDOUS WASTE

STORAGE AREA

UNAUTHORIZED PERSONS

KEEP OUT

RCRA RECORDS CENTER
FACILITY Pratt & Whitney - Main St
I.D. NO. CTD 990672081
FILE LOC. R-1B
OTHER 2562

- b. The locations of all appropriate signs in the Concentrated Waste Treatment Plant along with the specific wording of these signs are identified on Figure B-3. The area is staffed on a 24 hour basis. The entire East Hartford complex is staffed on a 24 hour/day, 7 day/week basis by security and fire personnel.
- c. In addition to the fence around the Concentrated Waste Treatment Plant, the entire East Hartford complex is surrounded by a fence, and entrance gates are staffed with security guards on a 24 hr/day, 7 day/week basis. Only

employees wearing employee identification badges are allowed on the property. Furthermore , the plant is patrolled by security guards in cruisers, and the active portion of the facility, as well as the remote areas of the larger plant, are continuously monitored by closed circuit television at security headquarters.

2. Inspection Schedule

a. General

The treatment and storage areas are inspected as required to avoid any release of hazardous waste constituents to the environment and any threats to human health. Inspections are conducted and recorded as described herein and inspection records are maintained for three years.

Inspections are conducted daily or weekly in accordance with the schedule defined herein. The inspections cover the hazardous waste containers, the storage areas, loading/unloading areas and the related emergency equipment and supplies. The results of each inspection are recorded on inspection log sheets. Information on the log sheet includes the inspector's name and clock number, date and time of inspection, check points, areas to check, deficiency reports, and the signature of the foreman responsible for the correction of deficiencies. If a deficiency is noted, appropriate and complete information is recorded, including a description of the problem and the nature of repairs and required remedial action.

If inspections reveal that non-emergency maintenance is needed,

it will be completed as soon as possible to preclude further damage and reduce the need for emergency repairs. If a hazard is imminent or has already occurred during the course of an inspection or any time between inspections, the inspector will notify the Emergency Coordinator per the Contingency Plan and remedial action will be taken immediately.

The inspection system described herein is currently under review. Consequently, this system may be modified somewhat in the near future.

b. PM System

A Preventative Maintenance (PM) System is in use at P&W which initiates the inspection of equipment so that repairs can be made before breakdowns occur. At predetermined intervals a computer card is issued for a particular piece of equipment, and the receiver of the card performs a preventative maintenance check on the piece of equipment according to prescribed inspection procedure. After the inspection is completed, the card is returned to the computer center and the date of completion of the inspection is entered into the computer. The inspector also records his time spent on the inspection, and in this way completion of the required inspection is assured.

RCRA required facility inspections are also initiated and recorded through the use of the PM System. Cards are issued for each area requiring inspection at the time intervals specified, and the inspection will take place using developed forms as provided in this

section according to the described procedures. After inspection, the card is returned, the amount of time spent on the inspection is recorded, and the completed inspection form is submitted to the foreman.

c. Inspection Methods

Inspections of equipment and areas should be conducted in a manner acceptable for preventative maintenance. The receipt of a computer card for a particular area will signify that inspection is required, and the inspection will be conducted by the treatment plant operator assigned to the area requiring inspection using the inspection guides shown in this section. After inspection, the inspection guide will be given to the foreman, who will sign the form. The foreman has the responsibility for correcting any deficiencies noted on the report, and for filing the report. The foreman will indicate on the inspection report the date the deficiency was corrected, and will report these corrections in writing to his General Supervisor on a monthly basis.

d. Inspection Schedule and Logs

Model inspection logs are included in Exhibit E-1. The actual logs are generally similar but include additional information required for the PM system. The following will be the frequency of inspections:

<u>AREA</u>	<u>FREQUENCY</u>
CWTP-1(Treatment Building) Containers	Weekly
CWTP-2(Barrel Storage Building) Tanks	Daily
CWTP-2(Barrel Storage Building) Containers	Weekly
CWTP-3(Underground Storage Tanks)Tanks	Daily
CWTP-4(Transporter Storage Pad) Containers	Weekly
CWTP-5(Storage Building A) Containers	Weekly
CWTP-6(Storage Building B) Containers	Weekly
Less Than 90 Day Container Storage Areas	Weekly
Less Than 90 Day Tank Storage Areas	Daily
Loading/Unloading Areas	Daily When in Use

In addition to the inspections described previously, P&W maintains facility-wide safety and emergency equipment in addition to the safety and emergency equipment associated with the Concentrated Waste Treatment Plant. All facility-wide emergency and safety equipment is inspected on a routine basis with most items being inspected monthly.

These inspections include equipment associated with the Hazardous Waste Storage Areas and are performed in addition to those inspections being performed by Hazardous Waste Management Personnel. The inspections consist of checking for proper functioning of all equipment.

All fire protection equipment including, extinguishers, water valves, hydrants, hoses, water tanks, sprinkler systems, and the facility's emergency vehicles are inspected on a regular frequency in accordance with P&W's Loss Prevention Standard.

Fences, gates, and signs are visually inspected during the guard's rounds. Fences are checked for integrity and signs of tampering. Any gaps in the fence or worn parts are identified and reported for repair and/or replacement. Gates are checked to make sure they are securely locked during the guard's rounds. Guards also inspect the warning signs along the fencing.

3. Equipment

The East Hartford facility will take all the necessary precautions required to protect human life, property, and the environment. In the event of an emergency, the Emergency Coordinator

and Alternate Coordinators have the authority to commit any equipment needed to be used to contain the emergency. This section describes the equipment that may be utilized in the event of an emergency.

a. Internal Communications

The internal communications system at the East Hartford facility combines telephones, radios, and alarms to provide a thorough line of communications in the event of an emergency. In addition, a Communications Center may be established by the Emergency Coordinator. Functions of the Communications Center include:

- Directing lines of communications between emergency groups
- Monitoring incoming and outgoing calls
- Carrying out instructions given by the Emergency Coordinator

Telephones are the primary internal communication devices although all emergency personnel are equipped with two-way radios and/or beeper systems that allow them to be contacted rapidly at all times. In addition, the working leader at the Concentrated Waste Treatment Plant carries a two-way radio. At times when only one person is in the Concentrated Waste Treatment Plant, that person carries the radio.

b. External Communications

The telephone communications system is also the primary external communications device and allows the facility to contact governmental authorities, emergency facilities, remedial action services, and media if the Emergency Coordinator determines it is necessary. Notification will be initiated after the Emergency Coordinator has given directions to do so. The Emergency Coordinator will directly notify the external contact(s) or designate a representative to do so.

There would never be a situation where only one employee is on the premises while the facility is in operation. A complete shutdown of the facility would result in a guard staff being on site. Outside communications would still be available via the previously mentioned alarm system, two-way radios, and the telephone system.

c. Emergency Equipment

A full complement of emergency equipment is maintained on-site. The equipment located at the Concentrated Waste Treatment Plant is described in detail in the Contingency Plan (Section F). All equipment is inspected regularly and maintained in good working condition.

d. Fire Control Water

In the event of a fire or explosion, there is adequate fire control water available. Fire hydrants and hose houses are strategically located throughout the facility. Most buildings on-site are equipped with automatic sprinklers which are supplied off the fire mains. The fire mains are fed by the municipal water system with on-site reservoirs and pumps ensuring adequate pressure and quantities in the event of activation. These systems are inspected routinely and are maintained in good working condition.

e. Aisle Space

Sufficient aisle space is maintained for inspecting containers and for containing released waste should any leakage occur. Access along the aisles provides for placing absorbent pillows or snakes or for distributing an absorbent, like Speedi-Dri, on the contaminated area. Following this immediate action to limit the spread of any

released waste, the palletized drummed waste in front of the pallet having the leaking drum is removed by a fork lift truck. Then, the leaking drum is placed in a recovery drum or repacked into a new container and cleanup of the contaminated area completed.

4. Preventive Procedures, Structures and Equipment

a. Loading/Unloading Operations

Loading/unloading operation at the East Hartford Plant take place in the manufacturing areas, at the oil yard and at the Concentrated Waste Treatment Plant.

Wastes generated in the manufacturing areas are loaded into various containers for transport to the oil yard (solvent reclaim) or Concentrated Waste Treatment Plant. During loading operations, care is used to minimize the potential for spills. In addition, the operations typically take place in areas without floor drains which could potentially allow spills to spread to outside areas. Nonetheless, standard industrial absorbents are readily available to contain any spills, and operators are trained to follow the spill control and emergency response procedures described in the Contingency Plan (Section F), including removal of contaminated materials and decontamination of facilities and equipment as necessary.

Waste solvents for reclaim are unloaded at the oil yard directly into the feed tank of the reclamation equipment. As such, handling of solvent wastes at the oil yard is minimized.

At the Concentrated Waste Treatment Plant several types of loading/unloading operations are performed. Wastes hauled in tankers are loaded and unloaded on concrete loading pads which are as large as

a tanker and sloped to a containment pit with the capacity to contain the contents of the tanker as well as precipitation from a 25 year 24 hour storm. There are three pads in use, separated into the categories of Acids, Alkali and Cyanide, and Oil. Each tanker pad has its own separate 500 gallon containment pit. Only if the spill is greater than 500 gallons will the liquid overflow this pit to a common 5000 gallon underground tank. The containment pits are checked for liquids before and after transfer operations. If liquids are detected, all liquids in the containment pits and underground tank will be pumped to the appropriate treatment tank. In addition, all spills onto the pads are washed down into the containment system, and pumped and treated accordingly. A bypass exists to direct rainwater from the pads directly to the wastewater treatment system. Procedures also call for this bypass to be closed at all times when waste transfer operations are occurring.

Drums are loaded and unloaded directly from trucks into the building at a truck dock on the west side of the storage building. The building has several containment areas built under the floor, and the floors are sloped so that all spills are directed into containment. The containment pits must be pumped out manually into the treatment tanks and treated as required.

Transporters are unloaded onto specially constructed platforms on the south side of the building. When placed on the platform, the transporter slopes downward for gravity discharge into a receiving line to bulk storage tanks. Previously mentioned containment pits in the building will contain any spills from transporters. If a

transporter cannot be immediately emptied, it is stored in one of the transporter storage facilities until it can be emptied.

Spill control and emergency equipment such as absorbent material, empty drums, telephones, fire protection equipment, personal protection equipment, etc. are located in the immediate vicinity of loading/unloading operations. This equipment is routinely inspected and maintained as discussed previously.

b. Runoff

All areas where hazardous wastes are stored have complete containment to prevent runoff. Rainfall can enter several of the secondary containment structures. These structures are inspected routinely and any accumulated liquids are collected and disposed of via off-site vendors or the NPDES Permitted Treatment Facility.

c. Prevention of Water Supply Contamination

There are no water supplies in the area and waste storage areas are provided with secondary containment to prevent the migration of waste should accidental releases or spills occur.

d. Mitigation of Effects of Power Failure

In the event of a power failure, activity in the Concentrated Waste Treatment Plant will stop until power is restored. Since all operations are manually controlled and there is no continuous flow of waste into the storage tanks, there is no danger of overflow or incomplete treatment during a power failure. The facility alarm system is provided with backup a power supply capable of operating the system in the event of power failure.

e. Prevention of Exposure of Personnel

All employees involved in hazardous waste handling operations are provided with training which covers waste toxicity, fire and explosion hazards, protective equipment recommendations, and first aid. Available personal protective equipment is described in the Contingency Plan. All OSHA requirements are adhered to.

f. Alarm System

The facility emergency alarm system complies with all local, state, and national codes, and with P&W's loss prevention standards. It consists of a central processing unit, transmitters and receivers, manual fire alarm "pull" stations, automatic heat and smoke detectors, sprinkler water flow alarm devices, audible alarms, and other components.

Alert signals, evacuation signals, and important emergency-related voice messages are delivered throughout the facility by means of speakers, located to cover all parts of the corridors and partitioned areas. Sprinkler water flow alarms are transmitted automatically to the East Hartford Fire Department as are alarms activated by automatic heat and smoke detection devices.

5. Prevention of Accidental Ignition or Reaction

The following precautions are taken to prevent ignition or reaction:

- a. "No Smoking" signs are posted where applicable (See Figure B-3).
- b. To prevent ignition due to frictional heat or sparks; open flames, cutting and welding are allowed only with approval and supervision of the fire department.

- c. Ignition by static discharge is prevented by grounding containers when transferring ignitables.
- d. To prevent reaction, incompatible materials are stored in separate sections of the storage facilities and in separate tanks. Incompatible wastes are indentified using the procedure described in the Waste Analysis Plan.
- e. Only new drums are used for hazardous waste to minimize the potential for accidentally mixing incompatible wastes and other materials.
- f. To prevent mixing of incompatible wastes in tanks, the waste to be added to the tank is screened prior to its addition to the appropriate tank following the procedure described in the Waste Analysis Plan. For all waste acids and for other waste for which there is a suspicion of incompatibility based on the waste screening, a compatibility test is performed in the laboratory. This test consists of mixing a representative of the waste in the tank with a representative sample of the waste to be added to the tank under a hood in the laboratory. A compatibility assessment is made based on visual observations and temperature measurements.

Operational procedures for handling wastes in containers and tanks are discussed in Section D (Process information). Mapping provided in Section B (Figure B-3) documents that the entire Concentrated Waste Treatment Plant is located greater than 50 feet from the nearest property line.

RCRA Part B Permit Application
United Technologies
Pratt & Whitney
CTD 990672081

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EXHIBIT E - 1
Inspection Logs

MODEL INSPECTION LOG

Unit: CWT-1 Container Storage Area

Date: __/__/__

Frequency: Weekly

Name: _____

Clock: _____

Down Time: _____

<u>INSPECTION POINT</u>		<u>-- S -- U --</u>
1. Containers:	Check for signs of leaks, weakness or deterioration. Remove and repack where necessary.	-- -- --
	Check for open containers, damaged labels, proper labeling and marking.	-- -- --
2. Pallets:	Check for breaks, weakness or deterioration. Replace as necessary.	-- -- --
3. Aisle space:	Check for adequate aisle space.	-- -- --
4. Floor:	Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration.	-- -- --
5. Sumps:	Check for liquid, debris or other matter. Remove liquids within 24 hours.	-- -- --
6. Compatibility:	Check for proper segregation of incompatibles. Verify identification signs with compatibility groups.	-- -- --
7. Loading areas:	Inspect for signs of spillage when in use.	-- -- --
8. Signs:	Check for presence and condition of warning signs.	-- -- --
9. Equipment:	Check for proper inventory of spill control and personnel safety equipment.	-- -- --
10. Inventory:	Count number and size of containers in each containment area.	

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWTP-2 Container Storage Area

Date: ___/___/___

Frequency: Weekly

Name: _____

Clock: _____

Down Time: _____

INSPECTION POINT

-- S -- U --

- | | | | | |
|-------------------|---|----|----|----|
| 1. Containers: | Check for signs of leaks, weakness or deterioration. Remove and repack where necessary. | -- | -- | -- |
| | Check for open containers, damaged labels, proper labeling and marking. | -- | -- | -- |
| 2. Pallets: | Check for breaks, weakness or deterioration. Replace as necessary. | -- | -- | -- |
| 3. Aisle space: | Check for adequate aisle space. | -- | -- | -- |
| 4. Floor: | Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration. | -- | -- | -- |
| 5. Sumps: | Check for liquid, debris or other matter. Remove liquids within 24 hours. | -- | -- | -- |
| 6. Compatibility: | Check for proper segregation of incompatibles. Verify identification signs with compatibility groups. | -- | -- | -- |
| 7. Loading Areas: | Inspect for signs of spillage when in use. | -- | -- | -- |
| 8. Signs: | Check for presence and condition of warning signs. | -- | -- | -- |
| 9. Equipment: | Check for proper inventory of spill control and personnel safety equipment. | -- | -- | -- |
| 10. Inventory: | Count number and size of containers in each containment area. | | | |

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWT-4 Transporter Storage Pad

Date: __/__/__

Frequency: Weekly

Name: _____

Clock: _____

Down Time: _____

INSPECTION POINT

-- S -- U --

- | | | | | |
|-------------------|---|----|----|----|
| 1. Containers: | Check for signs of leaks, weakness or deterioration. Remove and repack where necessary. | -- | -- | -- |
| | Check for open containers, damaged labels, proper labeling and marking. | -- | -- | -- |
| 2. Pallets: | Check for breaks, weakness or deterioration. Replace as necessary. | -- | -- | -- |
| 3. Aisle space: | Check for adequate aisle space. | -- | -- | -- |
| 4. Floor: | Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration. | -- | -- | -- |
| 5. Sumps: | Check for liquid, debris or other matter. Remove liquids within 24 hours. | -- | -- | -- |
| 6. Compatibility: | Check for proper segregation of incompatibles. Verify identification signs with compatibility groups. | -- | -- | -- |
| 7. Loading Areas: | Inspect for signs of spillage when in use. | -- | -- | -- |
| 8. Signs: | Check for presence and condition of warning signs. | -- | -- | -- |
| 9. Equipment: | Check for proper inventory of spill control and personnel safety equipment. | -- | -- | -- |
| 10. Inventory: | Count number and size of containers in each containment area. | | | |

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWTP-5 Storage Building A

Date: __/__/__

Frequency: Weekly

Name: _____

Clock: _____

Down Time: _____

INSPECTION POINT

-- S -- U --

1. Containers: Check for signs of leaks, weakness or deterioration. Remove and repack where necessary. -- -- --

Check for open containers, damaged labels, proper labeling and marking. -- -- --

2. Pallets: Check for breaks, weakness or deterioration. Replace as necessary. -- -- --

3. Aisle space: Check for adequate aisle space. -- -- --

4. Floor: Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration. -- -- --

5. Sumps: Check for liquid, debris or other matter. Remove liquids within 24 hours. -- -- --

6. Compatibility: Check for proper segregation of incompatibles. Verify identification signs with compatibility groups. -- -- --

7. Loading Areas: Inspect for signs of leakage when in use. -- -- --

8. Signs: Check for presence and condition of warning signs. -- -- --

9. Equipment: Check for proper inventory of spill control and personnel safety equipment. -- -- --

10. Inventory: Count number and size of containers in each containment area.

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWT-6 Storage Building B

Date: __/__/__

Frequency: Weekly

Name: _____

Clock: _____

Down Time: _____

<u>INSPECTION POINT</u>		<u>-- S --</u>	<u>U --</u>
1. Containers:	Check for signs of leaks, weakness or deterioration. Remove and repack where necessary.	--	--
	Check for open containers, damaged labels, proper labeling and marking.	--	--
2. Pallets:	Check for breaks, weakness or deterioration. Replace as necessary.	--	--
3. Aisle space:	Check for adequate aisle space.	--	--
4. Floor:	Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration.	--	--
5. Sumps:	Check for liquid, debris or other matter. Remove liquids within 24 hours.	--	--
6. Compatibility:	Check for proper segregation of incompatibles. Verify identification signs with compatibility groups.	--	--
7. Loading Areas:	Inspect for signs of leakage when in use.	--	--
8. Signs:	Check for presence and condition of warning signs.	--	--
9. Equipment:	Check for proper inventory of spill control and personnel safety equipment.	--	--
10. Inventory:	Count number and size of containers in each containment area.		

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWTP-2 Aboveground Storage Tanks
Cyanide 1&2; Alkali; Chrome; Blend;
Zyglo; Acid 1&2.
Frequency: Daily

Date: ___/___/___
Name: _____
Clock: _____
Down Time: _____

<u>INSPECTION POINT</u>		<u>-- S --</u>	<u>-- U --</u>	<u>--</u>
1. Tanks:	Check for leaks or deterioration in tank walls, seams and covers.	--	--	--
2. Containment Areas:	Check for the presence of cracks, faults and leaks and inspect coatings for damage and signs of deterioration.	--	--	--
	Check for the presence of standing liquid, debris or other matter and clean where necessary. Remove liquid within 24 hours.	--	--	--
3. Tank Interior:	Check for cracks, faults and deterioration of the walls when the tank is empty.	--	--	--
4. Pipelines:	Check lines leading to and from tanks for leaks, cracks, sags and other signs of deterioration.	--	--	--
5. Pumps:	Check tank associated pumps for leaks and other operational problems.	--	--	--
	Check pump sumps for liquid, debris or other matter and clean where necessary. Remove liquids within 24 hours.	--	--	--
6. Valves:	Check for leaks and operational problems.	--	--	--
7. Signs:	Check for presence and condition of warning signs.	--	--	--
8. Equipment:	Check for proper inventory of spill control and personnel safety equipment.	--	--	--
9.	Report deficiencies to Foreman.			

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: CWTP-3 Underground Storage Tanks
B1 Oil; B2/B3 Oil; High Flash
Frequency: Daily

Date: ___/___/___
Name: _____
Clock: _____
Down Time: _____

<u>INSPECTION POINT</u>		<u>-- S --</u>	<u>-- U --</u>
1. Leak Detection Systems:	Test to verify that it's operating properly in accordance with the manufacturer's specifications.	--	--
2. Level Control Systems:	Test to verify that it's operating properly in accordance with the manufacturer's specifications.	--	--
	Check high level setpoints.	--	--
3. Pumps:	Check tank associated pumps for leaks and other operational problems.	--	--
	Check pump sumps for liquid, debris or other matter and clean where necessary. Remove liquids within 24 hours.	--	--
4. Dump Station Containments:	Check for presence of cracks, faults and leaks and damage to the coatings.	--	--
	Check for liquid, debris or other matter and clean where necessary. Remove liquids within 24 hours.	--	--
9.	Report deficiencies to Foreman.		

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: Less Than 90 Day Storage Areas
Location: _____
Frequency: Weekly

Date: / /
Name: _____
Clock: _____
Down Time: _____

<u>INSPECTION POINT</u>	<u>— S — U —</u>
1. Containers: Check for signs of leaks, weakness or deterioration. Remove and repack where necessary.	— — —
Check for open containers, damaged labels, proper labeling and marking.	— — —
2. Pallets: Check for breaks, weakness or deterioration. Replace as necessary.	— — —
3. Aisle space: Check for adequate aisle space.	— — —
4. Floor: Check for signs of cracks, gaps or other deterioration. Inspect coatings for damage and signs of deterioration.	— — —
5. Sumps: Check for liquid, debris or other matter. Remove liquids within 24 hours.	— — —
6. Compatibility: Check for proper segregation of incompatibles. Verify identification signs with compatibility groups.	— — —
7. Loading Areas: Inspect for signs of leakage when in use.	— — —
8. Signs: Check for presence and condition of warning signs.	— — —
9. Equipment: Check for proper inventory of spill control and personnel safety equipment.	— — —
10. Inventory: Count number and size of containers in each containment area.	

Containment Area
Number

Container Size,
gallons

Number of
Containers

11. Report deficiencies to Foreman.

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: Less Than 90 Day Storage Tanks
Location: _____
Frequency: Daily

Date: ____/____/____
Name: _____
Clock: _____
Down Time: _____

<u>INSPECTION POINT</u>		<u>-- S --</u>	<u>-- U --</u>	<u>--</u>
1. Tanks:	Check for leaks or deterioration in tank walls, seams and covers. Inspect level control system for proper operation.	--	--	--
2. Containment Areas:	Check for the presence of cracks, faults and leaks and inspect coatings for damage and signs of deterioration.	--	--	--
	Check for the presence of standing liquid, debris or other matter and clean where necessary. Remove liquid within 24 hours.	--	--	--
	Check for proper operation of the leak detection system.	--	--	--
3. Tank Interior:	Check for cracks, faults and deterioration of the walls when the tank is empty.	--	--	--
4. Pipelines:	Check lines leading to and from tanks for leaks, cracks, sags and other signs of deterioration.	--	--	--
5. Pumps:	Check tank associated pumps for leaks and other operational problems.	--	--	--
	Check pump sumps for liquid, debris or other matter and clean where necessary. Remove liquids within 24 hours.	--	--	--
6. Valves:	Check for leaks and operational problems.	--	--	--
7. Signs:	Check for presence and condition of warning signs.	--	--	--
8. Equipment:	Check for proper inventory of spill control and personnel safety equipment.	--	--	--
9.	Report deficiencies to Foreman.			

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

MODEL INSPECTION LOG

Unit: Tanker Loading/Unloading Pads

Date: __/__/__

Frequency: Daily When in Use

Name: _____

Clock: _____

Down Time: _____

INSPECTION POINT

		<u>-- S -- U --</u>
1. Base:	Check for signs of cracks, faults or other deterioration. Inspect coatings for damage and signs of deterioration.	<u>-- -- --</u>
2. Sumps & Spill Tank:	Check for the presence of cracks, faults and leaks and inspect coating for damage and signs of deterioration.	<u>-- -- --</u>
	Check for the presence of standing liquid, debris or other matter and clean where necessary. Remove liquid within 24 hours.	<u>-- -- --</u>
3. Piping:	Check for leaks, cracks, sags or other deterioration.	<u>-- -- --</u>
4. Valves:	Check for leaks and operational problems. Sump valves must be open when pads are not in use.	<u>-- -- --</u>
5. Signs:	Check for presence and condition of warning signs and compatibility group identification labels.	<u>-- -- --</u>
9.	Report deficiencies to Foreman.	

LIST ALL DEFICIENCIES AND CORRECTIVE ACTION TAKEN:

Technician Signature

CATHODIC PROTECTION SYSTEM TEST FORM
Concentrated Waste Treatment Plant

Date: _____

Time: _____

Tester's Name _____

<u>Tank Identification</u> <u>Number</u>	<u>Tank Capacity,</u> <u>gallons</u>	<u>Tank</u> <u>Contents</u>	<u>Cathodic Protection</u> <u>Operating Potential</u>

Testing Frequency: Annual

LIQUID LEVEL MONITORING CALIBRATION AND
RELEASE DETECTION MONITORING
Concentrated Waste Treatment Plant

Date: _____

Time: _____

Tester's Name: _____

<u>Tank</u> <u>Number</u>	<u>Tank Capacity,</u> <u>gallons</u>	<u>Tank</u> <u>Contents</u>	<u>Automatic</u> <u>Level, in.</u>	<u>Manual</u> <u>Level, in.</u>	<u>Release</u> <u>Detection Check</u>
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N
_____	_____	_____	_____	_____	Y/N

Testing Frequency: Daily

Note: If automatic and manual liquid levels vary by more than 10 percent, contact the East Hartford Compliance Group immediately.

SECTION F - CONTINGENCY PLAN

The Contingency Plan for the East Hartford Facility is presented as Exhibit F - 1. The Plan is both an SPCC Plan for oil pollution prevention and a Contingency Plan for hazardous waste management. As such, the plan includes facilities and equipment not regulated under the hazardous waste regulations. As required, the plan has been sent to local police and fire departments, hospitals and the local emergency planning committee. Copies of the letters transmitting this document to these agencies are kept on file at the facility.

RCRA Part B Permit Application
United Technologies
Pratt & Whitney
CTD 990672081

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November 12, 1990

EXHIBIT F - 1
SPOC Plan
For Oil Pollution Prevention
and
Contingency Plan
For
Hazardous Waste Management

SPCC PLAN
FOR OIL POLLUTION PREVENTION
AND
CONTINGENCY PLAN
FOR
HAZARDOUS WASTE MANAGEMENT
AT
PRATT & WHITNEY
EAST HARTFORD MANUFACTURING FACILITIES
EPA I.D. #CID990672081
(400 MAIN STREET)
and
EPA I.D. #CID000844399
(COLT STREET)
EAST HARTFORD, CT 06108

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EXHIBIT B	List of Oil Storage Facilities
EXHIBIT C	List of Transformer Facilities
EXHIBIT D	Evacuation Plan
EXHIBIT E	Emergency Equipment Inventory
EXHIBIT F	Emergency Equipment Locations

LIST OF ACRONYMS USED

ASTM	American Society for Testing Material
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
CWTP	Concentrated Waste Treatment Plant
DEP	Connecticut Department of Environmental Protection
DWW	Dilute Wastewater
EHS	Extremely Hazardous Substance
EP	Extraction Procedure
EPA	U.S. Environmental Protection Agency
HWM	Hazardous Waste Management
IH&S	Industrial Hygiene & Safety
IWTP	Industrial Waste Treatment Plant
MCL	Material Control Laboratory
MERL	Material Engineering Research Laboratory
MFG	Manufacturing
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
P&W	Pratt & Whitney
PMC	Process Material Control Specifications
PS	Process Solution Specifications
PWA	Pratt & Whitney Specifications
RCRA	Resource Conservation and Recovery Act
RQ	Reportable Quantity
SPCC	Spill Prevention Control and Countermeasure Plan
TSA	Transportation Safety Act
TSDF	Treatment Storage Disposal Facilities

LEA LOUREIRO ENGINEERING ASSOCIATES

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October 20, 1989

United Technologies Corporation
Pratt & Whitney
400 Main Street and Colt Street
East Hartford, CT 06108

Att: Arthur Caldwell, Manager, Environmental Affairs

Re: Certification of the SPOC/Contingency Plan
for the Pratt & Whitney Facilities located in
East Hartford, CT
Comm. No. 371-01

Dear Mr. Caldwell:

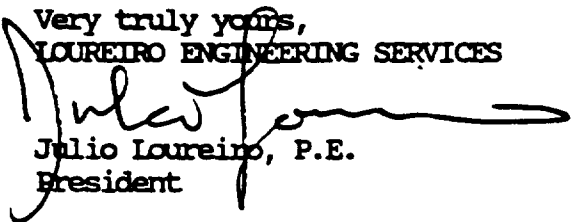
We have reviewed and updated the Spill Prevention Control and Countermeasure and Contingency Plan for the Pratt & Whitney facilities located in East Hartford, Connecticut in accordance with the U.S. Environmental Protection Agency Regulations on Oil Pollution Prevention - 40 CFR Part 112, entitled, "Oil Pollution Prevention - Non-Transportation Related Onshore and Offshore Facilities". We hereby certify that this plan dated March 1989 and revised October 20, 1989 has been prepared in accordance with good engineering practices and satisfies the intent and purpose of Section 112.7 of the above regulations.

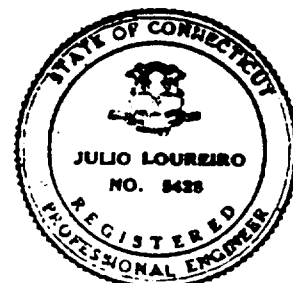
This certification is conditional, based on implementation of the following improvements at Rentschler Field within 24 months:

- 1) Construction of a properly designed truck containment pad for the four fuel trucks;
- 2) Installation of properly sized oil/water separators on the 24 inch drain serving Hangars 1 and 2 and the aircraft fueling area, and on the drain servicing Hangar 3. The separator on the drain servicing Hangar 3 is only necessary if this building is going to continue to house aircraft; and
- 3) Installation of leak detection equipment and overfill protection devices on the 250 gallon underground tank at the tower or replacement of this tank with a properly designed above ground facility.

Should you have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,
LOUREIRO ENGINEERING SERVICES


Julio Loureiro, P.E.
President



A. INTRODUCTION

1. General

This document is a combined Spill Prevention Control and Countermeasure (SPOC) Plan for oil pollution prevention and Contingency Plan for hazardous waste management. These combined plans are designed to protect personnel, property, and the environment from hazards associated with accidental discharges and emergency incidents at the Pratt & Whitney (P&W) East Hartford plant.

2. Regulations

This combined plan satisfies the regulatory requirements of the U.S. Environmental Protection Agency (EPA) and the State of Connecticut, Department of Environmental Protection (DEP).

SPOC Plans are intended to prevent accidental discharges of petroleum products to the environment by defining the equipment and procedures required for safe handling of these materials and for containment of accidental discharges. Owners and operators of facilities that use or store oil or oil products are required to have an SPOC Plan in accordance with the EPA Regulations on Oil Pollution Prevention (40 CFR 112). Descriptions of additional laws and regulations which are applicable to SPOC Plans are presented in Exhibit A.

Contingency Plans for hazardous waste management are intended to minimize hazards to human health or the environment from fires, explosions, or any sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water. Owners and operators of facilities that generate, store, or treat hazardous waste are required to have a Contingency Plan in accordance with the EPA Regulations for Owners and Operators of Permitted Hazardous Waste Facilities (40 CFR 264, Sub-part D) and by Connecticut Hazardous Waste Regulations Section 22a-449(c)-26.

Included herein is a detailed description, assessment, and delineation of methods and measures to be taken to prevent and/or contain spills of oils and to minimize hazards to human health and/or to the environment from fires, explosions, or releases of hazardous waste or its constituents.

3. Description of Manufacturing Facilities

The Pratt & Whitney East Hartford plant is a large manufacturing facility located east of the Connecticut River, south of Willow Brook, and north of Brewer Street in the Town of East Hartford, Connecticut (Refer to Figure No. 1 on the following page).

The facility consists of a main factory complex, a separate power house, several separate office buildings, an airport with hangars and a control tower, several auxiliary buildings and engine development and test facilities including an outdoor test area on 1,090.6 acres of land. It is used for the design, development, manufacturing, and testing of aircraft engines.

4. Site Considerations

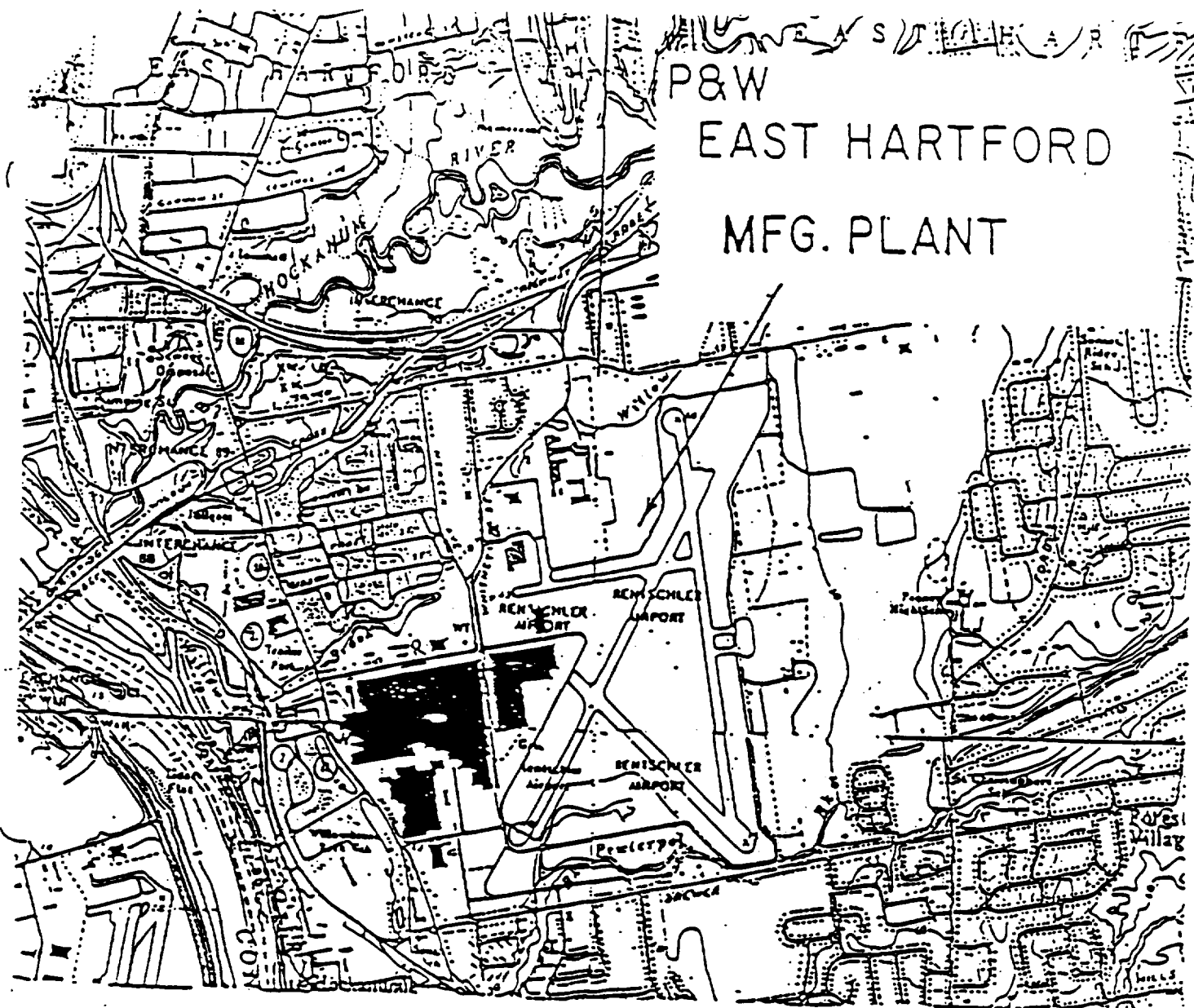
Willow Brook runs east to west through the north end of the P&W East Hartford complex. There is a dam and pond in the vicinity of the waste treatment facilities. The 100 year flood level is 33.3 feet and is located within the pond embankments. The 500 year flood level is 36.1 feet which would also be contained. The source of this flood level data is the Flood Insurance Study for the Town of East Hartford, Connecticut, dated August 1979 prepared by the U.S. Department of Housing and Urban Development, Federal Insurance Administration.

5. Traffic Patterns

The major highways nearest to the East Hartford manufacturing facility are Routes 2 and I-84. Trucks traveling Route 2 use the Willow Street Exit and enter the facility through the Willow Street gate. These trucks then proceed on Willow Brook Road to the Concentrated Waste Treatment Plant (CWTP). Trucks exiting from I-84 proceed through the Silver Lane entrance gate onto West Connector Road, to Willow Brook Road and then to the CWTP. The maximum weight of fully loaded trucks entering the facility is 80,000 lbs. Approximately 600 tankers and 250 trailers containing hazardous and non-hazardous waste enter the facility per year. The in-plant load bearing capacity of the road is 14,000 pounds per square foot and the road surfacing is bituminous concrete.

6. Wastewater Collection

Within the factory complex, several dilute industrial wastewater and dilute oily waste collection and pumping systems have been installed to provide proper containment, storage and transfer of the



LOCATION MAP
 PRATT & WHITNEY
 EAST HARTFORD
 MFG. PLANT
 EAST HARTFORD, CT.



ROAD CLASSIFICATION

- | | |
|--------------------|-------------------------------|
| Heavy-duty _____ | Light-duty _____ |
| Medium-duty _____ | Unimproved dirt |
| ○ Interstate Route | □ U.S. Route ○ State Route |

Revisions shown in purple compiled in cooperation with Connecticut Highway Department from aerial photographs taken 1972. This information not field checked

HARTFORD NORTH, CONN.
 M4145—W7237.5/7.5

1964
 PHOTOREVISED 1972
 AMS 64677 SW—SERIES Y816

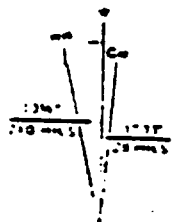


FIGURE 1

various wastewaters to the Pratt & Whitney Industrial Wastewater Treatment Facilities located at the company's Colt Street property. At these facilities, the wastewaters are properly treated prior to discharging into Willow Brook. This discharge is permitted under the state and federal National Pollutant Discharge Elimination System (NPDES) permit program.

Pratt & Whitney also has its own Concentrated Waste Treatment Plant which handles reclaimed and waste oils for processing and disposal. Waste oils are characterized then segregated for reclaim or disposal. These oils are transferred from 55-gallon drums into one of three waste oil tanks at the Concentrated Waste Treatment Plant (CWTP). Licensed vendors then pick-up bulk loads for reclaim or disposal at permitted TSDF's. Waste soluble oil obtained within the manufacturing complex is collected in 500-gallon portable tanks and transported to one of two "Jeffrey" sludge separators from which the liquid fraction is pumped to the CWTP for further treatment and disposal.

7. Stormwater Drainage

Most storm water which falls onto the site is collected and discharged into a series of catch basins and storm sewers which flow into either Willow Brook to the north or into Pewterpot Brook to the south. Both of these brooks empty into the Connecticut River which is located about one-half mile west of the main factory complex. All discharges emanating from the factory complex containing treated wastewater, industrial cooling water, and/or similar discharges are being monitored under the NPDES permit program (refer to Figure No. 2 for the locations of the NPDES monitoring points).

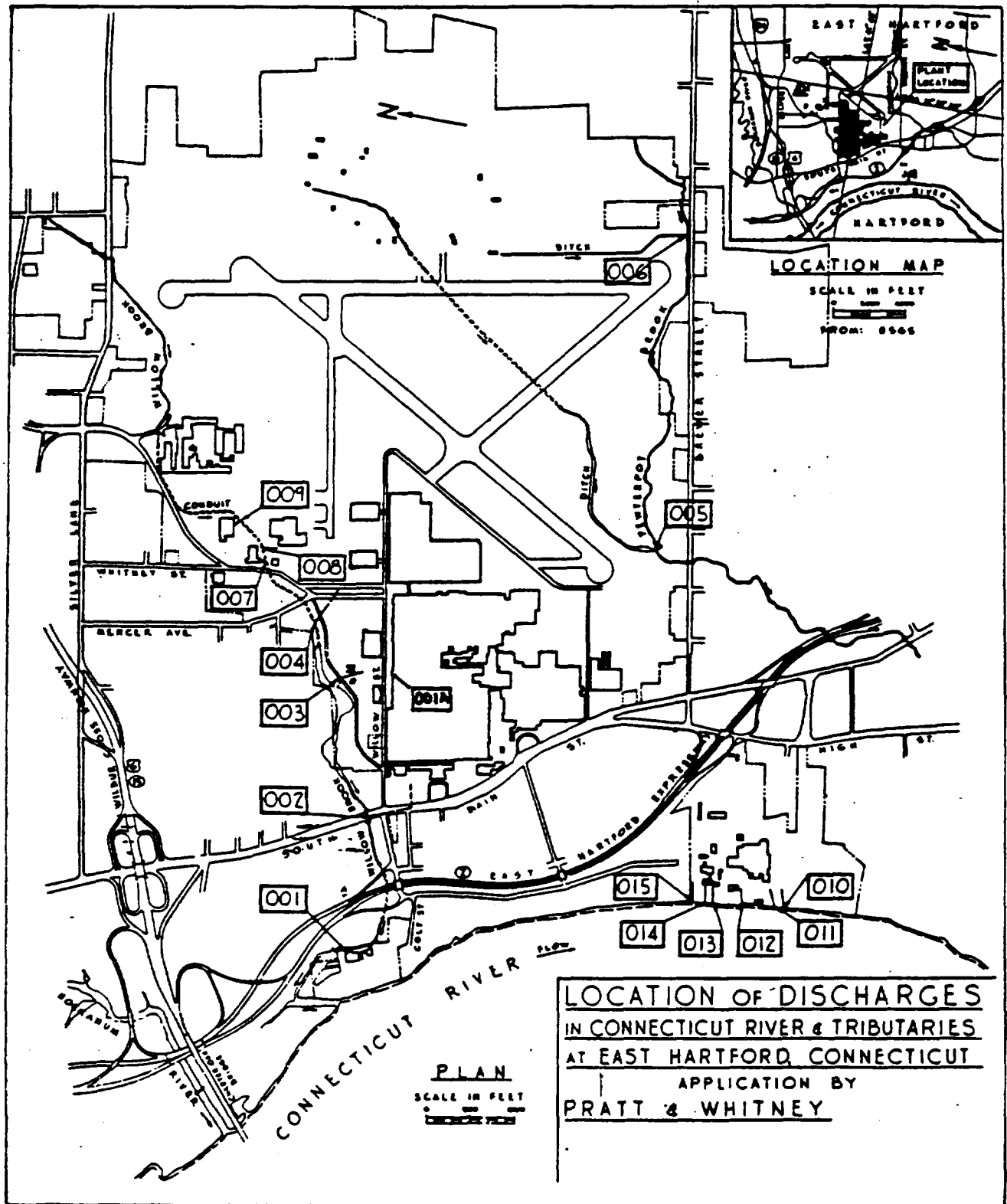


FIGURE NO. 2

B. DESCRIPTION OF FACILITIES AND MANAGEMENT PROCEDURES FOR OIL PRODUCTS AND SOLVENTS

1. General

The Pratt & Whitney East Hartford plant has storage facilities for many different types of oils and selected solvents which are covered by this SPCC/Contingency Plan. These products include the following:

- No. 6 Fuel Oil
- No. 2 Fuel Oil
- Jet Fuel
- Automotive Gasoline
- Diesel Fuel
- Other Petroleum Based Oils and Solvents
- Electrical Equipment Oil (Including PCB Oil)
- Hazardous Substances (Solvents)

In the following sections, the facilities for storing these materials; the routine handling and inspection procedures; the assessments of spill potential; the containment systems; and the spill prevention, control measures, and countermeasures are presented.

2. Storage Facilities

Storage facilities for petroleum products and hazardous substances at the East Hartford plant include tanks (above and underground), drum storage areas, and oil-filled electrical equipment facilities. A description of these facilities is presented below. In addition, lists summarizing the size, location, and other pertinent information for each storage facility are presented in Exhibits B and C.

a. No. 6 Fuel

No. 6 fuel is stored in two underground (UG) fuel storage tanks located immediately north of the Power House. The tanks are classified as field constructed concrete tanks which hold approximately 146,000 and 158,000 gallons respectively.

b. No. 2 Fuel

No. 2 fuel (diesel) is stored in two (2) underground tanks; one 1,000 gallon tank south of "F" building and one 250 gallon tank at the airport control tower. In addition, there are a total of nine (9) above ground tanks located throughout the East Hartford facility. These tanks range in capacity from 250 to 300 gallons. (See Exhibit B for exact locations.)

c. Jet Fuel

Jet fuel (Jet "A", JP-4, jet engine calibrating fluid, and salvage jet fuel) is stored at the following locations: the south tank farm; experimental test area "X104"; experimental airport test laboratory (ETAL); the UTC airport hangar; experimental test area "X-410"; and north experimental test area. The south tank farm holds a total of nine underground fuel storage tanks ranging in size from 10,000 to 30,000 gallons. Test area "X104" holds two underground fuel storage tanks storing 1,000 gallons each and one 275 gallon above ground salvage fuel tank. Five tanks are present at ETAL ranging in size from 1,000 to 5,000 gallons. Two tanker trucks with 4,000 gallon capacity each are always present at the UTC airport. Lastly, a total of two 550 gallon and one 500 gallon above ground tanks are located at test area "X-410" and north test area respectively.

d. Automotive Gasoline

Automotive gasoline is stored in four underground fuel tanks at the following locations: one 5,000 gallon tank north of the executive garage; two 10,000 gallon tanks north of the maintenance garage; and one 10,000 gallon tank east of "I" Building.

e. Diesel Fuel

Diesel fuel for vehicle operations is stored in two 10,000 gallon underground storage tanks. The tanks are located near "I" building and the maintenance garage respectively.

f. Other Petroleum Based Oils and Solvents

In addition to the fuel oil storage facilities, the East Hartford plant provides storage for fresh hydraulic, mineral, and cutting oils, reclaimed oil (for recycle and reuse), waste oil, and petroleum based solvents. These petroleum derivatives are contained in several underground and above ground tanks of varying capacity throughout the facility.

Virgin hydraulic, mineral, and cutting oils are stored at the south tank farm. In addition, the petroleum derived stoddard solvent is stored here. Each tank is 10,000 gallon capacity and designed to dispense product at the south tank farm into 55 gallon drums or 300 gallon portable "transporters". These mobile containers are then moved to various locations throughout the plant as needed.

Oil reclamation is conducted in the northeast corner of building "C" at the oil "crib" area. Reclaimed oil is stored in barrels at the Klondike. Nonreclaimed oil is accumulated in barrels in the oil yard and periodically sent to the CWTP for vendor disposal. In addition, a 500 gallon above ground tank containing nonreclaimable waste oil/solvents is located at the north end of "L" building.

Waste oil is processed and stored at the CWTP tank farm and at the Industrial Wastewater Treatment Plant (Colt Street Treatment Plant). Waste oils are initially collected in either one of two Jeffrey sumps located in "J" or "D" buildings. Accumulated oils are then pumped to two 12,000 gallon above ground storage tanks within the CWTP. After a simplified thermal cracking procedure, the various grades of waste oil are then pumped and stored in a series of three 10,000 gallon underground tanks until removed for disposal.

Dilute oily wastewater is directed to the Colt Street Wastewater Treatment Plant. Accumulated oils are captured in an oil/water separator and diverted to an above ground tank. This tank is periodically pumped out by disposal vendor.

Smaller quantities of different oil products are stored in 55-gallon drums and smaller containers. Storage areas are located at the Oil House, the Oil Yard, the Klondike, and the Linde areas.

g. Electrical Equipment Oil (Including PCB Oil)

Pratt & Whitney uses various types of oil filled electrical equipment including transformers, cable chambers, switches and circuit breakers in its power distribution network. These types of equipment are typically grouped together at substations. The majority of these substations are located on the roofs of the buildings they serve. However, some substations are located in ground level transformer yards and service areas.

Volumes of oil in any single unit of electrical equipment range from less than 100 gallons (in all cable chambers, switches and circuit breakers and many small transformers) to 2065 gallons (in larger transformers). Since these electrical units are grouped together in clusters at substations, the total volumes of oil present at substations range from less than 100 gallons to greater than 5,000 gallons. A summary of oil-filled electrical equipment locations and capacities is presented as Exhibit C.

Historically, many of the insulating oils used in electrical equipment contained high levels of polychlorinated biphenyls (PCBs), a flame retardant compound. However, during the 1970s, potential adverse health effects of PCBs were identified. Therefore, in the late 1970s, the Environmental Protection Agency (EPA) began to

regulate the usage and disposal of PCBs under the authority of the Toxic Substances Control Act. Since these regulations were promulgated, Pratt & Whitney has worked steadily to clean virtually all electrical equipment reservoirs so that they contain less than 50ppm of PCBs.

Electrical equipment waste oils are typically stored in the following areas:

- X-77 Test Cell Storage Area in North Production Test Area
- RCRA Barrel Storage Building in Concentrated Waste Treatment Plant Area
- PCB Storage Building in Klondike Area

The X-77 Test Cell Storage Area is used for temporary storage of electrical equipment waste oils in 55 gallon drums while analyses are being performed to determine whether or not these oils contain PCBs or contaminants which inhibit their insulating properties. Oils which do not contain PCBs are reclaimed in the Storage Area and then tested to confirm that they can be reused. Any oils which cannot be reused are sent to the Concentrated Waste Treatment Plant Area for disposal. Oils found to contain PCBs are moved either to the RCRA Barrel Storage Building for a brief time (i.e., typically less than 3 days) prior to being moved to the PCB Storage Building or they are moved directly to the PCB Storage Building. At the PCB Storage Building, the contents of the drums are pumped into either of two 3600 gallon above-ground storage tanks. If these tanks are full, the drums may also be stored in a separate drum storage area which can hold up to thirty 55 gallon drums.

h. Hazardous Substances (Solvents)

There are a total of three underground tanks storing solvents characterized as hazardous substances. These substances include: perchloroethylene, 1,1,1-trichloroethane, and methanol. Perchloroethylene and 1,1,1-trichloroethane are stored at the South Tank Farm in tanks with 10,000 gallon capacity each. Methanol is stored in a 1,000 gallon tank at test area "X104".

Solvent reclamation takes place in the oil "crib" area in the northeast corner of building "C". Reclaimed solvents are distributed throughout the plant directly from this area in 300 gallon mobile transporters or 55 gallon barrels.

3. Handling and Inspection Procedures

a. Handling

Although the East Hartford Plant is normally in operation 24 hours per day, seven days per week; bulk fuel deliveries from commercial vendors are usually limited to the hours of 7 a.m. and 5 p.m. on weekdays. The servicing of small individual fuel tanks is also provided during this time period. Jet fuel is transferred by direct pipeline from the Willgoos Laboratory. The two tanker trucks servicing the UTC airport are also filled at the Willgoos facility.

In general, two persons are required to be on duty during the tank filling operations while fuel is being delivered and transferred from the commercial tank trucks to the fuel oil storage tanks. While the operator of the tank truck controls the fuel transfer operation, a P&W serviceman monitors the fuel transfer operation and assists the truck operator in controlling the operation and/or initiating notification procedures for controlling a spill.

The smaller capacity fuel oil storage tanks (i.e., diesel fuel tanks used for the emergency generators and water pumps) are normally filled on a weekly basis from a portable tank of approximately 150 gallon capacity mounted on a standard pickup truck. Fuel is transferred using a small fuel pump. Normally, two P&W maintenance servicemen are responsible for overseeing the proper dispensing of the fuel to these smaller tanks.

P&W maintenance personnel located at the airport facilities supervise the refueling of jet aircraft at the service hangar while jet fuel is being supplied by tank truck to the aircraft. The lead mechanic is responsible for all refueling operations at this facility.

In other specific areas, such as the Experimental Test Area, the Industrial Wastewater Treatment Plant located at Colt Street, and the CWTP, P&W personnel are responsible for monitoring the fuel transfer operations.

Power Distribution Group personnel are responsible for adding and removing oils from electrical equipment. To prevent spills, drums are typically placed on trays with containment lips, plastic is placed on the floor, and hose connections are taped. In cases where oils contain PCBs, personnel wear protective clothing as dictated by Health and Safety.

b. Inspection Procedures

The inspection procedures for petroleum storage vessels include: liquid level measurements, visual inspections of overall operation, and structural integrity checks.

The liquid level measurements in the larger underground storage tanks (> 1000 gallons) are logged at least once daily. The two methods employed for recording these measurements are automatic tank gauging and "manual sticking". The specific method used for each tank varies depending on tank design and/or location. Each month, the logs are consolidated and reported to the Manufacturing Support Material Control Office for comparison of the monthly fuel consumption and delivery records for each tank.

The larger above ground tanks used to store waste and reclaimed oil are monitored by both visual inspection and instrumentation panel readings during the three working shifts by the appropriate plant personnel. Liquid levels are logged daily, and records of the individual tank levels are reported weekly to the appropriate department supervisors.

The smaller capacity fuel storage tanks located throughout the plant are monitored and inspected weekly by the same maintenance personnel responsible for the dispensing of the fuel. Record logs similar to those for the bulk storage tanks are maintained for these tanks.

The 55-gallon drums of oil products stored at the barrel storage and dispensing areas of the Linde area are inspected weekly by the supervisor of the machine tool services department. Records of these inspections are maintained on file by the department supervisor.

All electrical equipment containing oil are inspected monthly by qualified maintenance personnel from the Power Distribution Group. These inspections include visual checks of protective devices and structural integrity to ensure that there is no deterioration which could lead to failure. Any problems are reported to the group supervisor who is responsible for ensuring that necessary corrective actions are taken promptly.

Transformers containing PCBs at concentrations greater than 50ppm are typically located in curbed areas with sealed drains. Precipitation is pumped from these areas to prevent moisture damage to electrical equipment. Finally, for transformers containing PCBs at concentrations greater than 500ppm (at the present time there is only one such transformer, and it is located at the Willgoos facility), a written inspection log is prepared on a quarterly basis, and copies are filed in the Power Distribution Group office.

The X-77 Test Cell Drum Storage Area is inspected for any evidence of drum leakage or deterioration on a weekly basis by a representative of the Power Distribution Group. The RCRA Barrel Storage Building is also inspected on a weekly basis. These inspections are performed by a waste treatment operator, and they include preparation of written inspection logs which require that the operator note any deficiencies related to barrel deterioration, labeling or quantity; pallet deterioration; floor deterioration; improper barrel stacking; and presence of liquid in sumps.

Written logs generated during these inspections are filed in the Waste Treatment Plant office. Finally, the PCB Storage Building is inspected on a monthly basis by a waste treatment operator. These inspections include preparation of written inspection logs which require that the operator note any deficiencies related to tank deterioration and liquid levels; integrity of pumps, pipelines, containment, valves, floors, and barrels; proper packing and stacking of barrels; integrity and security of fences; and presence of proper safety and spill control equipment. Written logs generated during these inspections are also filed in the Waste Treatment Plant office. The supervisor of Waste Treatment Operations is responsible for ensuring that any deficiencies noted during inspections of the RCRA Barrel Storage Building or the PCB Storage Building are promptly addressed.

The methods used to gauge the structural integrity of oil storage vessels are visual inspection, cathodic protection testing, and inventory reconciliation. Visual inspection and inventory reconciliation are used to assess the structural integrity of all above ground tanks. Underground tanks are assessed by cathodic protection testing and inventory reconciliation. 55 gallon drums and smaller containers are inspected by visual observation.

4. Assessment of Oil Spill Potential

In general, the potential for a major oil spill at the Pratt & Whitney East Hartford facility is considered low due to the design and installation of the oil storage facilities, the overfill and spill control equipment available on-site, and the practice of routine monitoring and inspection procedures. In addition, standard operating procedures require that the transfer and routine handling of oil products be performed by adequately trained commercial vendors and in-house service personnel.

Any active storage container is labeled with an internal identification (PMC) number which identifies the stored material. Critical information for the proper handling of these materials in the event of a serious spill or leak is available to the plant service personnel involved with the material.

A significant fuel spill at any of the larger bulk storage tanks could occur during filling operations. The primary source of this type of potential fuel spill would be the tank truck involved in the fuel transfer operations. Normally, the fuel oil is transferred using gravity flow under minimum pressure and the maximum amount of fuel or oil that could be involved would be limited to the contents of a single compartment of the tank truck. This type of fuel spill is unlikely since it would require a major structural failure of the tank truck itself. Other preventive measures include the design of secondary

containment pads for fuel dispensing operations. The south tank farm is an example of a modern fuel dispensing area with full secondary containment and fire protection. The retrofitting of dispensing areas with secondary containment is an ongoing program.

Leaks from an underground tank can be detected in several ways. Of the 29 P&W underground storage tanks that are currently regulated under federal and state law, a total of 23 are double walled tanks equipped with interstitial monitors for leak detection. The release detection systems are inspected regularly to ensure they are functioning properly. If a major leak were to occur then the outer wall would capture any escaping product. The remaining six tanks are currently designed with a single walled construction. Annual hydrostatic precision testing of these tanks will detect leaks until they are replaced with double walled tanks. Smaller underground tanks located at outlying areas are monitored for leaks through periodic inventory measurements and reconciliation.

A potential for a leak exists in the underground pipeline serving the South Tank Farm and the pipeline leading to the jet engine test cells. Hydrostatic precision testing of these lines on a regular basis would minimize this potential.

The potential exists for spills or leaks at above ground storage tanks. Any leaks would be readily detected and quickly controlled using the containment equipment available on-site. Secondary containment would ensure proper control of a tank spill when personnel are not present.

The potential for major or minor spills inside the main plant always exists due to the nature of the manufacturing operations, the presence of oil containing equipment, and the internal piping and valves associated oil distribution networks. The dilute wastewater and waste oil collection systems provide an excellent method of spill containment within the facility. Any captured discharge will be treated at the Colt Street Treatment Plant, thus considerably reducing the risk of an oil discharge to surface waters.

The potential for a spill at the CWTP is low due to the standard operating procedures in place for the transfer and handling of waste and reclaimed oils. All loading and unloading of materials from tanker trucks to storage tanks occurs on truck pads equipped with containment. In addition, all fixed above ground storage tanks are protected with secondary containment.

Potential leaks from the 55-gallon drums stored at the Oil Yard and Linde areas would be of limited size due to routine visual inspections; however, these storage areas are presently not provided with any containment or shelter to minimize the impact of any spills or leaks should they occur. In an ongoing program, Pratt & Whitney is pursuing the technical upgrading of all drum storage areas.

The potential for oil spills at the outdoor electrical substations is low since Pratt & Whitney has taken proper precautions to ensure that the

transformers and other electrical equipment are adequately maintained, protective devices are provided, substations are protected from foreign article damage, and transformers are protected from moisture damage. All transformers are maintained on a regular schedule, and deficiencies are corrected promptly. Since the principle modes of failure for transformers are ruptures due to excessive current flow or low current faults, all transformers have been provided with primary and backup protective devices which would de-energize the transformer prior to rupture. In addition, all transformers are also equipped with pressure relief devices which would prevent rupture if the de-energization devices listed above failed. All transformers have been located in isolated areas where they would not be likely to be damaged by foreign articles such as motor vehicles. Finally, care is taken to drain precipitation accumulating at substations to prevent moisture damage.

Any leaks of oil from the drums stored in the X-77 Test Cell Storage Area or the PCB Storage Building would typically be limited to the contents of one drum. Such a spill would be contained by the containment curbing provided. Any leak of oil from the drums stored in the RCRA Barrel Building would also typically be limited to the contents of one drum, and would be contained by the sloped floors and sump provided.

Any leaks of PCB liquid from the 3600 gallon above ground tanks in the PCB Storage Building would be contained by the concrete containment walls provided.

A low potential exists for oil spills to enter the facility's storm sewer system discharging into Willow Brook. P&W currently maintains containment facilities and equipment along this water course which would intercept the flow of oil and allow for proper containment and cleanup. Also, the considerable distances from the various storage units to Willow Brook would normally allow ample time for corrective actions to be implemented.

The storm sewer systems discharging into Pewterpot Brook to the south of the facility primarily drain the employee parking areas; however, spills within a small area of "K" building and in the vicinity of the South Tank Farm could reach catch basins that are connected to these pipelines. The potential for product discharge within the South Tank Farm is low due to the containment provided for all underground storage tanks and fuel dispensing areas.

The only pathway of discharge into Pewterpot Brook from the Klondike and Linde areas is via surface run-off. Containment of the above ground fuel tanks and the barrel storage areas will significantly reduce the potential of spills reaching this watercourse. In addition, Pewterpot Brook is routinely monitored under the NPDES permit program.

5. Containment Facilities and Equipment

As stated above, many of the fixed above ground and underground storage vessels are provided with secondary containment. This form of containment

functions as the first line of defense in any release of oil as the spilled product never leaves the source area. As part of an ongoing program, P&W is continually examining the current storage systems and upgrading the containment systems where possible.

Potential spills at locations without secondary containment and from mobile storage vessels require additional spill prevention equipment to prevent releases to the environment. Wherever possible, containment systems are being installed and P&W currently maintains additional fixed and mobile equipment to mitigate potential releases.

The combined storm drain discharges into Willow Brook must flow through the Willow Brook Pond area located just north of the CWTP. This pond contains two oil skimming mechanisms and related oil collection facilities which remove any floating oil from the surface of the holding pond. The oil is then pumped into the 1,250-gallon waste oil storage tank located at the CWTP for further processing and disposal.

A Gale oil separator is installed on the storm sewer which services the south test cell area which eventually discharges to the dilute industrial wastewater treatment system. Floating oils trapped in the separator are removed daily and transferred into an adjacent oil storage tank which is emptied when required. The oil is collected into 55-gallon drums and delivered to the CWTP.

The following list of containment equipment is available for use in the event of an accidental spill of fuel oil, reclaimed oil, waste oil, transformer oil, other type of oil products, or solvents onto the surface of the ground or into the surface waters surrounding the site. These spill control materials are stored inside the truck trailer located at the CWTP in East Hartford.

- 100' Boom chain
- 50' Containment boom with 25-foot galvanized collars
- Gorman Rupp portable pump with suction and discharge hoses
- Two 5-gallon gasoline containers
- Two life jackets
- 3-foot pipe wrench
- One 50 L.F. and one 100 L.F. of rope

The following is a list of additional containment equipment and materials stored at the CWTP:

- One drum of sawdust
- Six pairs of vinyl and cotton gloves
- Disposable coveralls (#5-510)
- Safety shields and goggles
- Hazorb pillows
- One case of absorbent pads
- One 1-1/4 lb. jar of "Plug & Dike" with plug rugs
- Row boat

- One 80-gallon salvage drum
- Two pairs of boots
- One bag of oil absorbent (Type 210 particulate)
- One bag of oil absorbent booms
- Brooms, shovels, and rakes

The spill control containment equipment located at the CWTP can be obtained through the Facilities & Services Group, Maintenance Section.

Additional spill control containment materials (i.e., sawdust, Speedi-dri, absorbent pads, shovels, brooms, etc.) are available for emergency use at P&W's Central Fire Station, the ETAL Tank Farm, the UTC airport hangar, Test Cell X-77 in the North Test Area (PCB barrel storage area), and the Klondike PCB Storage Building.

6. Spill Prevention, Control Measures and Countermeasures

In general, any uncontrolled accidental spill which enters the catch basins or storm drains located on the property could enter the Connecticut River via Willow Brook and/or Pewterpot Brook. Any potential spill must be contained, diverted, or removed using the appropriate containment methods and equipment which have been provided for this facility. The proper use of this equipment and the immediate response of trained personnel will prevent any such possibility from being realized.

The oil skimming and related oil pumping facilities located at Willow Brook holding pond, the gale oil-separator serving the south test cell area, the waste oil collection and treatment facilities at the Concentrated and Industrial Wastewater Treatment Plants, and the dilute waste oil collection and pumping systems located throughout the manufacturing plant should be inspected and maintained routinely.

The storage tanks and other primary containment vessels used to store oil and solvents should be monitored and inspected in accordance with all federal and state regulations. All product transfer operations should be performed in accordance with all standard operating procedures established by P&W. In addition, personnel should follow the most up-to-date health and safety regulations and other special regulations or guidelines pertaining to specific products (i.e., Jet Fuel).

Existing secondary containment structures should be maintained and routine inspections should be performed to ensure their capacity for containing a spill. Additional secondary containment and/or control measures should be provided wherever practical to control spills and/or leaks from storage tanks and facilities in accordance with the latest regulations, guidelines, and/or directives.

7. RENTSCHLER FIELD

a. Petroleum Product Storage

- Jet Fuel

Jet fuel is stored at Rentschler Field in two 4,000 gallon tank trucks. This fuel supplies aircraft which use the airport. In addition, significant quantities of jet fuel are present in the fuel tanks of aircraft stored in Hangars 1 and 2 as well as in an aircraft stored in Hangar 3.

- Diesel Fuel

Diesel fuel is stored at Rentschler Field in one 750 gallon tank truck and in one 250 gallon underground tank. The fuel truck is used to supply heavy equipment, portable generators, etc. and the underground tank is used to supply a generator servicing the tower.

- Automotive Gasoline

Gasoline is stored at Rentschler Field in a 750 gallon tank truck. This gasoline is used in tugs and other miscellaneous airport maintenance equipment.

- Other Oils

Small quantities of various oils in 55 gallon drums are also used at the airport. These oils are dispensed in the shop in areas without floor drains or in areas where the floor drains have been plugged. The drums are stored in an out-building constructed with a concrete containment pad and sump.

b. Petroleum Product Handling

Tank trucks containing fuel are filled off-site at bulk storage facilities owned and operated by Pratt & Whitney. The tank trucks are stored at the airport for use in fueling transient aircraft and airfield operations and maintenance equipment. The trucks are stored on a paved surface located south of Hangar 1 in close proximity to an area where most aircraft fueling operations take place. (see Figure 3.). The trucks are equipped with spill stopper pads for covering near-by catch basins on the storm drainage system. In addition, a spill cart equipped with absorbent materials for fuels is stored near-by. In the event of a spill during a fueling operation, near-by catch basins would be covered and the spill cart would be deployed for clean-up.

Aircraft containing varying quantities of fuel in their fuel tanks are parked in Hangars 1, 2 and 3. The Hangar floors are concrete and are drained using trench drains and area drains. These drains discharge to a piped reach of Willow Brook. Willow Brook discharges to Willow Pond which is equipped with spill containment devices. This equipment could be used to intercept the flow of oil and contain it for removal.

The underground diesel fuel tank supplying the emergency power generator at the tower is filled periodically using a portable 150 gallon tank mounted on a standard pick-up truck. The fuel is transferred using a small fuel pump. Normally, two P&W maintenance servicemen perform this operation. The pick-up truck is equipped with spill control equipment which would be deployed in the event of a spill during the filling of this tank.

C. Assessment of Spill Potential

In general, the potential for a major fuel spill at Rentschler Field is considered to be low. Fueling operations are closely supervised by maintenance personnel, the tank trucks used for fuel storage are in excellent condition and are designed to minimize the potential for leaks or spills, and drummed oils are stored in a properly designed building with a containment sump or, when in use, in the shop in an area without floor drains. However, should a fuel truck or aircraft housed in a hangar develop a leak which goes undetected, significant quantities of fuel could discharge to Willow Brook. The potential for a significant discharge of fuel to Willow Brook also exists during aircraft fueling operations. The following procedures and equipment are used to minimize the potential for a discharge of fuel to Willow Brook:

- Tank trucks used for fuel storage are of the latest design and are well maintained;
- Tank trucks are equipped with catch basin covers and a spill response cart is located close to fueling operations;
- Personnel responsible for fueling operations are trained in the use of spill response and spill control equipment;
- Aircraft stored in hangars are well maintained and inspected frequently;
- Drummed oils are stored in an out-building which has a concrete containment pad and sump;
- Drummed oils brought into the shop for use, are dispensed inside in an area where there are no active floor drains; and

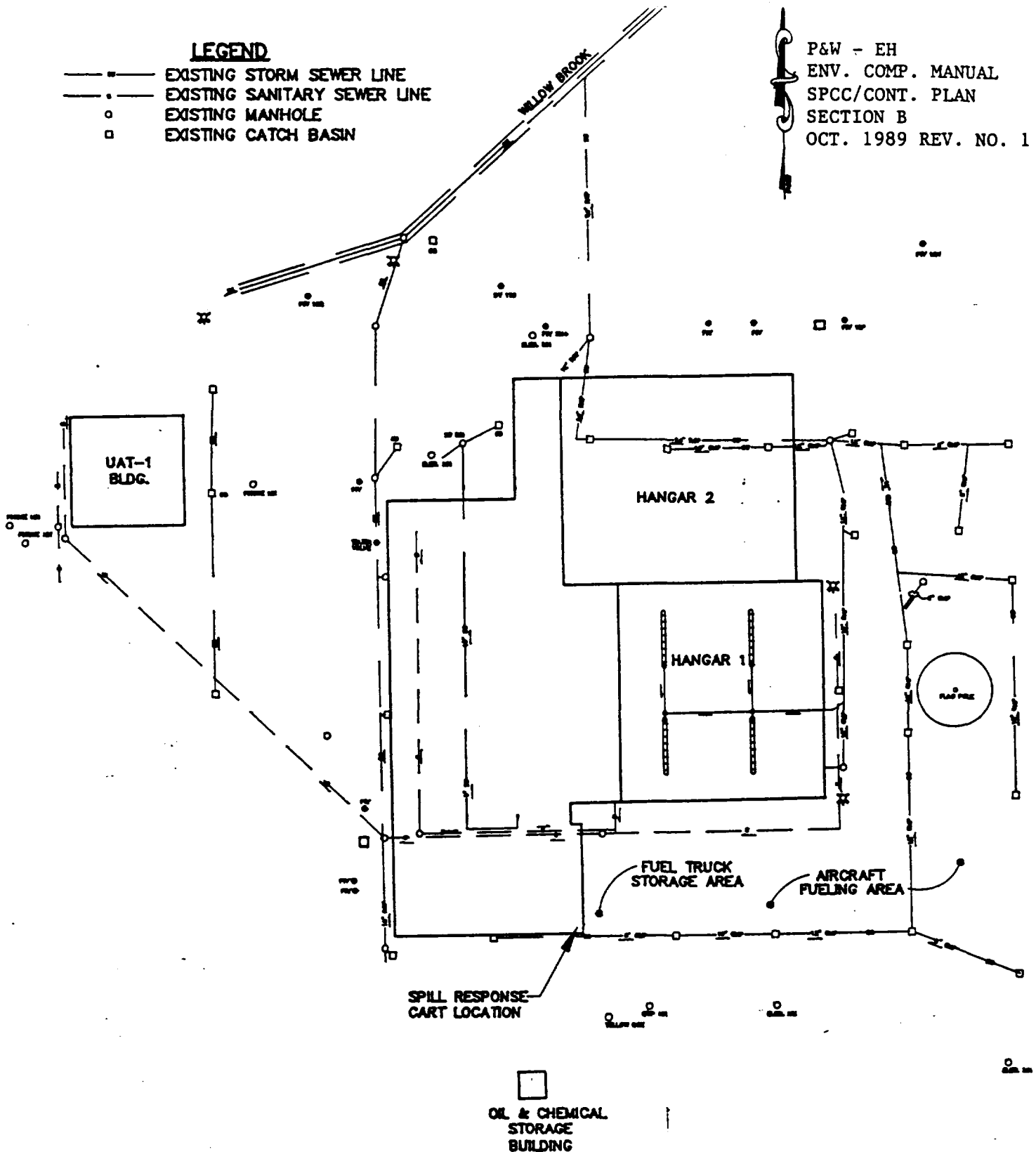
- The underground diesel tank is filled infrequently by maintenance personnel trained in the use of spill response and control equipment and the level in the tank is monitored routinely by "sticking" to detect any significant losses from the tank.

In addition to the procedures and equipment described above, the drainage systems in the area discharge to Willow Brook, and subsequently to Willow Pond which is equipped with oil skimming and removal equipment. Therefore, should a spill result in a release to the drainage system and Willow Brook, an opportunity to contain it exists via the equipment on Willow Pond.

LEGEND

- — — — — EXISTING STORM SEWER LINE
- — — — — EXISTING SANITARY SEWER LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN

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SCALE: 1' = 100'

FIGURE 3

C. DESCRIPTIONS AND QUANTITIES OF HAZARDOUS WASTES

1. Compatibility

An important aspect of handling hazardous wastes is separation of incompatible wastes. Many hazardous wastes, when mixed with other waste or materials can produce effects which are harmful to human health and the environment, such as (1) heat or pressure, (2) fire or explosion, (3) violent reaction, (4) toxic dusts, mists, or gases, or (5) flammable fumes or gases. Table 1 categorizes general waste materials which are incompatible. The mixing of material from one group in Table 1 with material from another group may have the potential consequences noted.

2. Types of Wastes and Hazardous Characteristics

The hazardous wastes handled at the East Hartford facilities have all been identified and characterized in accordance with applicable regulations. The hazardous characteristics of the various wastes fall into one or more of the following categories:

<u>Type of Hazardous Waste</u>	<u>EPA Hazard Code</u>
Ignitable Waste	I
Corrosive Waste	C
Reactive Waste	R
Toxicity Characteristic	E
Toxic Waste	T

Table 2 has been prepared to show the various waste streams, each of which may contain several different constituents having the same hazard code(s). This table presents a general description of the waste, the hazardous characteristics, the hazard code, and the materials comprising each waste stream so that, when the Contingency Plan is implemented, the potential hazards for each situation can be readily assessed.

3. Material Identification

Materials used in the P&W East Hartford facility are identified by specific control numbers and markings. Normally, materials are stored in specific areas of the plant. A knowledge of these identification systems and storage areas will help in the assessment of hazards.

Bulk petroleum products are identified by name and stored in specific tanks as previously mentioned. Several different kinds of oils are stored in drums bearing the manufacturers label and P&W internal identification numbers. These are stored in the Klondike area, the Oil Yard, and the Oil House.

TABLE 1

INCOMPATIBLE WASTE

<u>Group 1-A</u>	<u>Group 1-B</u>
Acetylene Sludge	Acid Sludge
Alkaline Caustic Liquids	Acid and Water
Alkaline Cleaner	Battery Acid
Alkaline Corrosive Liquids	Chemical Cleaners
Alkaline Corrosive Battery Fluid	Electrolyte, Acid
Caustic Wastewater	Etching Acid Liquid or Solvent
Lime Sludge & Corrosive Alkalies	Pickling Liquor and Corrosive Acids
Lime Wastewater	Spent Acid
Lime and Water	Spent Mixed Acid
Spent Caustic	Spent Sulfuric Acid
Potential Consequences: Heat Generation, Violent Reaction	
<u>Group 2-A</u>	<u>Group 2-B</u>
Aluminum	Any Waste in Group 1-A or 1-B
Beryllium	
Calcium	
Lithium	
Magnesium	
Potassium	
Sodium	
Zinc Powder	
Other Reactive Metals & Metal Hydrides	
Potential Consequences: Fire, Explosion, Generation of Flammable Hydrogen Gas	
<u>Group 3-A</u>	<u>Group 3-B</u>
Alcohols	Any Concentrated Wastes in Groups 1-A or 1-B
Water	
Potential Consequences: Fire, Explosion, Heat Generation, Generation of Flammable or Toxic Gases	

TABLE 1 (Cont'd)

INCOMPATIBLE WASTE

<u>Group 4-A</u>	<u>Group 4-B</u>
Alcohols	Concentrated Group 1-A or 1-B Waste
Aldehydes	Group 2-A Waste
Halogenated Hydrocarbons	
Nitrated Hydrocarbons	
Unsaturated Hydrocarbons	
Other Reactive Organic Compounds & Solvents	
Potential Consequences: Fire, Explosion, or Violent Reaction	
<u>Group 5-A</u>	<u>Group 5-B</u>
Spent Cyanide & Sulfide Solutions	Group 1-B Waste
Potential Consequences: Generation of Toxic Hydrogen Cyanide or Hydrogen Sulfide Gas	
<u>Group 6-A</u>	<u>Group 6-B</u>
Chlorates	Acetic Acid & Organic Acids
Chlorine	Concentrated Mineral Acids
Chlorites	Group 2-A Waste
Chromic Acids	Group 4-A Waste
Hypochlorites	Flammable & Combustible Waste
Nitrites	
Nitric Acid, Fuming	
Perchlorates	
Permanganates	
Peroxides	
Other Strong Oxidizers	
Potential Consequences: Fire, Explosion, or Violent Reaction	

TABLE 2
HAZARDOUS WASTE CHARACTERISTICS

<u>EPA Designations</u>		<u>Hazard Code</u>	<u>General Description</u>	<u>Contains</u>
<u>Waste Stream</u>	<u>Characteristics</u>			
A	Toxic	T	Spent halogenated solvents	Tetrachloroethylene 1,1,1-Trichloroethane Trichlorotrifluoroethane
B	Ignitable and Toxic	I,T	Spent non-halogenated solvents	Acetone Benzene Methyl Ethyl Ketone Toluene Xylene
C	Corrosive	C	Non-listed waste exhibiting the characteristic of corrosivity	Acids, Alkalies
D	Reactive	R	Cyanide waste solutions; sulfur solids and aluminum oxide powder	Sodium Cyanide Copper Cyanide Sulfur Solid Aluminum Oxide
E	Toxic	T	Wastewater treatment plant sludge from electroplating operations	Metal Hydroxides
F	Ignitable	I	Discarded nitric acid solutions greater than 40%	Nitric Acid
G.	Miscellaneous Corrosive, Ignitable, and Toxic	I,T,C	Discarded or spilled chemical products	Acids, Alkalies Solvents, Oxidizers

Hazard Code Key

I - Ignitability (Solvents)

- Liquid with a flash point below 60°C (140°F)

C - Corrosivity (Acids, Alkalies)

- Aqueous material with pH less than or equal to 2 or greater than or equal to 12.5

R - Reactivity (Cyanide bearing wastes)

- Cyanide or sulfide wastes which, when exposed to pH conditions between 2 and 12.5, can generate toxic gasses, vapors, or fumes.

T - Toxicity (Acids, Organics, Solvents, etc.)

- These categories include a wide variety of organics and inorganic materials toxic to man by either short-term or long-term exposure as listed in federal regulations; a limited number of such wastes are generated at Pratt & Whitney.

Solvents and waste oil are stored in clearly identified tanks, while drums and other containers which hold hazardous waste are identified with standard P&W process solution numbers (PMC, PWA, and PS) which are assigned to all chemicals used at the facility. These drums are normally stored in specific areas as discussed previously.

D. EMERGENCY RESPONSE PROCEDURES

1. General

The following responses are required for any type of incident involving petroleum product discharges or hazardous wastes with a potential threat to persons or the environment, whether due to fire, explosion, spills, or other releases. Immediate action by the first observer to minimize the potential for harmful effects must be followed by timely and proper notifications.

The initial response to any emergency shall be to protect human health and preserve safety. Consequently, the initial observer shall not take undue risks with his or her own personal safety in attempts to limit release to the environment.

An immediate secondary response shall be to limit damage to the environment. This includes operation of secondary containment facilities and spill countermeasure procedures.

A third priority is clean-up, treatment, and disposal of spilled material. These responses shall be made after the Emergency Coordinator has identified and assessed the hazards.

A. Duties of the Initial Observer

The initial observer of the spill or incident must respond as follows:

- o If possible, stop or limit the effect of an incident through timely and routine action without endangering personal safety.
- o Always notify the Fire Department immediately, even if the spill, fire, explosion, or other hazard seems small. Tell the Dispatcher:
 - Name of person reporting and telephone number.
 - Where the incident is located.
 - What the nature of the emergency is.
 - What material is involved (if known).
 - How much material is involved (if known).
 - What corrective action has been taken if any.

B. Duties of the Fire Department Dispatcher

The Dispatcher's job is to initiate emergency activities. The Dispatcher will:

- o Dispatch the Fire Department to the scene of the incident and notify Security Headquarters to assist in area control.
- o Contact the Emergency Coordinator as listed in the Notification Procedures pages D-6 to D-8 of this section and inform him/her of the information provided by the Initial Observer.
- o Handle all requests for assistance by the Responding Fire Officer.
- o Notify Industrial Hygiene & Safety of the location of the incident and the type of material involved so that appropriate monitoring equipment will be employed.

C. Duties of the Responding Fire Officer

The Responding Fire Officer's responsibility is to evaluate the situation and:

- o Evacuate any and all personnel who may be endangered by the incident. Security personnel will assist in this activity.
- o Contain the incident to LIMIT the extent of the damage, not to attempt a remedial action.
- o Notify the Dispatcher of the need for Medical personnel in the event of or the potential for injuries, Industrial Hygiene & Safety personnel to provide ambient air monitoring for potential harmful releases.

D. Duties of the Emergency Coordinator

If the Emergency Coordinator is called to an incident, on scene coordination of all efforts is his/her responsibility. Command of the scene is relinquished by the Responding Fire Officer.

The Emergency Coordinator directs and coordinates emergency activities in response to a fire, explosion, spill, or other hazard. The steps to be taken when contacted by the Fire Department Dispatcher can be summarized as follows:

- o Based on information provided by the Dispatcher will mobilize Waste Treatment personnel to the scene.
- o CONTACT THE P&W MANAGER OF ENVIRONMENTAL PROTECTION OR HIS ALTERNATE AS IDENTIFIED IN THE NOTIFICATION PROCEDURES PAGES D-6 TO D-8 OF THIS SECTION IMMEDIATELY!
- o Identify the character, source, and extent of the fire, explosion, or release.
- o Identify and assess hazards to human health and the environment based on:
 - The location of the incident.
 - The nature of the emergency.
 - The material involved.
 - The amount of material.
 - Wind direction.
 - Injuries.
 - Potential for further damage (fire, explosion health effects, etc.)
- o Coordinate containment, clean-up, treatment, and disposal activities.
- o Participate in post emergency assessments and preventive measures.
- o Making necessary emergency notifications to the Connecticut Department of Environmental Protection, East Hartford Fire, Police, or local medical facilities, or to initiate off-site evacuation procedures.
- o Execute any and all remaining notification procedures.

E. Duties of the P&W Manager of Environmental Protection

The P&W Manager of Environmental Protection or his alternate will be responsible for:

- o Dispatching a member or members of the Environmental Protection Group to the scene to assist the Emergency Coordinator in evaluating the extent of the damage, the potential for off-site impacts, and determining if the incident is beyond the capabilities of the Pratt & Whitney personnel to sufficiently remediate.
- o Making necessary notifications to senior management.

F. Duties of the Security Force

When notified by the Fire Department Dispatcher of the need for crowd or traffic control at a hazardous waste or material incident, the Security Communications Officer will immediately dispatch personnel to the scene to assist in maintaining order and a smooth flow of emergency personnel and equipment in and out of the area.

G. Duties of the Medical Department

When notified by the Fire Department Dispatcher of the need for medical assistance at a hazardous waste or material incident, the ambulance and its staff will immediately respond to the scene. Medical personnel are NOT to endanger themselves by entering an area where a hazard exists. Many fire fighters are trained as Emergency Medical Technicians and will evacuate any injured persons from the hazard area before the ambulance staff will take over.

The Medical Department will notify the Manager of Environmental Protection or his alternate if it will be necessary to transport injured personnel to the area hospitals. Arrangements for transportation will be made by the Medical Department, notification of the hospitals of the type of incident will be made by the Manager of Environmental Protection.

H. Duties of Industrial Hygiene and Safety

When notified by the Fire Department Dispatcher of the need for air monitoring at a hazardous waste or material incident, IH&S will immediately dispatch personnel to the scene to assist in monitoring the incident to ensure that if evacuation of Pratt & Whitney personnel or the population of the surrounding community becomes necessary, the P&W Manager of Environmental Protection will be informed at the earliest possible moment.

2. Reporting Procedures for Petroleum Product, Chemical, or Hazardous Waste Incidents

The reporting procedures presented on the following three pages are included as a summary of the required notifications discussed in this document. All personnel or telephone number changes in the summary should be reported to the East Hartford Environmental Compliance Group as soon as possible so that the summary may be updated.

SUMMARY OF NOTIFICATION PROCEDURES
FOR
PETROLEUM PRODUCT, HAZARDOUS WASTE,
OR HAZARDOUS MATERIAL INCIDENTS OR RELEASES

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***** EAST HARTFORD *****

THE FOLLOWING REPORTING PROCEDURES ARE TO BE FOLLOWED BY PRATT & WHITNEY PERSONNEL IN THE EVENT OF ANY SPILL, DISCHARGE, RELEASE OR EMERGENCY INCIDENT INVOLVING ANY PETROLEUM PRODUCT, CHEMICAL, HAZARDOUS MATERIAL OR WASTE WHICH MIGHT BE CONSIDERED POTENTIALLY HARMFUL TO HUMAN HEALTH OR THE ENVIRONMENT.

- (1) PLANT PERSONNEL WHO WITNESS OR HAVE KNOWLEDGE OF ANY SPILL, DISCHARGE, RELEASE OR INCIDENT SHOULD IMMEDIATELY NOTIFY THE PRATT & WHITNEY FIRE DEPARTMENT BY TELEPHONE USING THE EMERGENCY NUMBER:

5 - 1 1 1 1

- (2) THE FIRE DEPARTMENT DISPATCHER WILL DISPATCH FIRE DEPARTMENT PERSONNEL TO THE INCIDENT SCENE AND NOTIFY THE SHIFT PRIMARY EMERGENCY COORDINATOR AS FOLLOWS:

<u>TIME</u>	<u>PRIMARY EMERGENCY COORDINATOR</u>
WEEKDAYS, 8:00 am TO 4:30 PM:	R. ATWOOD EXT 5-3833 HM: 203-267-2708
WEEKDAYS, SECOND SHIFT	J. HURLEY *EXT 5-9999 HM: 203-289-4603
WEEKDAYS, THIRD SHIFT	R. KEENE *EXT 5-9999 HM: 203-684-5221

<u>TIME</u>	<u>ALTERNATE EMERGENCY COORDINATOR</u>
WEEKDAYS, FIRST SHIFT	R. IVES EXT 5-3435 HM: 203-423-5298
WEEKDAYS, SECOND SHIFT	K. JORDAN *EXT 5-9999 HM: 401-949-0329
WEEKDAYS, SECOND SHIFT	C. VIRTUE *EXT 5-9999 HM: 203-242-0495
WEEKDAYS, THIRD SHIFT	R. KEENE *EXT 5-9999 HM: 203-684-5221
AT ALL OTHER TIMES:	*PAGE DUTY SUPERVISOR

IF THE PRIMARY OR ALTERNATE COORDINATOR CANNOT BE REACHED CONTACT ONE OF THE FOLLOWING EMERGENCY COORDINATORS:

R. ATWOOD	EXT. 5-3833	HM: 267-2708
W. CHUDZIK	EXT. 5-0338	HM: 649-6007

- (3) IF NECESSARY, THE RESPONDING FIRE OFFICER SHALL NOTIFY THE DISPATCHER OF THE NEED FOR ASSISTANCE FROM:

EMERGENCY MEDICAL SERVICE	EXT 5-7736
GUARD HEADQUARTERS	EXT 5-6615
INDUSTRIAL HYGIENE & SAFETY	EXT 5-3440

SUMMARY OF NOTIFICATION PROCEDURES
FOR
PETROLEUM PRODUCT, HAZARDOUS WASTE,
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- (4) THE EMERGENCY COORDINATOR SHALL THEN NOTIFY IMMEDIATELY BY TELEPHONE AT LEAST ONE PERSON BELOW, LISTED IN THE CALLING SEQUENCE:

A. C. CALDWELL, MANAGER, ENVIRONMENTAL PROTECTION EXT 5-2016 HM: 875-7953
R. D. ROSENBERG, ENVIRONMENTAL COORDINATOR EXT 5-2689 HM: 646-2392
R. C. WEISS, DIRECTOR, FACILITIES & SERVICES EXT 5-4887 HM: 295-0781

- (5) THE EMERGENCY COORDINATOR SHALL PROVIDE THE FOLLOWING INFORMATION TO ALL THOSE NOTIFIED IN PARAGRAPH NO. 4:

A. WHERE AND WHEN THE INCIDENT OCCURRED.
B. WHAT MEDIUM RECEIVED THE RELEASE (AIR, SURFACE WATERS, GROUND).
C. WHAT CHEMICAL OR MATERIAL WAS INVOLVED AND QUANTITIES SPILLED.
D. THE TIME OR DURATION OF RELEASE
E. EXTENT OF INJURIES OR DAMAGES TO PERSONS OR PROPERTIES.
F. EMERGENCY ACTION BEING TAKEN (EVACUATION, FIRE SUPPRESSION, ETC.).
G. REASON FOR THE INCIDENT.
H. CORRECTIVE ACTIONS IN PREPARATION.

IN ADDITION TO IMMEDIATE ORAL NOTIFICATION, THE COORDINATOR SHALL PROVIDE THE ABOVE INFORMATION IN WRITING TO THE PERSON NOTIFIED IN PARAGRAPH NO. 4.

- (6) BASED UPON THE INFORMATION PROVIDED, THE EMERGENCY COORDINATOR FOR THE EAST HARTFORD FACILITY IN COORDINATION WITH THE DIVISION COUNSEL AS NECESSARY WILL DETERMINE WHETHER OR NOT THE INCIDENT IS REPORTABLE UNDER FEDERAL OR STATE REGULATION AND IF REPORTABLE NOTIFY THE APPROPRIATE AGENCIES LISTED IN PARAGRAPH 7 AND THE P&W ENVIRONMENTAL PROGRAMS MANAGEMENT GROUP OF EPG (EXT. 5-2016) AND NOTIFY PUBLIC RELATIONS.

PEGGY L. FORD

EXT 5-1296 HM: 203-547-9544

- (7) IN THE EVENT OF A REPORTABLE INCIDENT, THE APPLICABLE AGENCIES FROM THE FOLLOWING LIST WILL BE NOTIFIED IMMEDIATELY BY TELEPHONE BY THE EMERGENCY COORDINATOR.

<u>AGENCY</u>	<u>PHONE NUMBER</u>
NATIONAL RESPONSE CENTER	800-424-8802
DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND CHEMICAL SPILL SECTION	203-566-3338
EAST HARTFORD LOCAL EMERGENCY PLANNING COMMITTEE	9-911
STATE OF CONNECTICUT EMERGENCY RESPONSE COMMISSION	203-566-4633

SUMMARY OF NOTIFICATION PROCEDURES
FOR
PETROLEUM PRODUCT, HAZARDOUS WASTE,
OR HAZARDOUS MATERIAL INCIDENTS OR RELEASES

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US COAST GUARD

203-773-2464

HARTFORD HOSPITAL

203-524-2525

(8) THE FOLLOWING INFORMATION SHALL BE PROVIDED TO THE AGENCIES NOTIFIED IN PARAGRAPH NO. 7 ABOVE:

- A. NAME AND TELEPHONE NUMBER OF THE REPORTER.
- B. NAME AND ADDRESS AND TELEPHONE NUMBER OF FACILITY
- C. TIME, DURATION, AND TYPE OF INCIDENT (E.G. OIL, CHEMICAL, OR HAZARDOUS WASTE).
- D. NAME AND QUANTITY OF MATERIAL(S) INVOLVED, TO THE EXTENT KNOWN.
- E. THE MEDIA OR MEDIUM TO WHICH THE RELEASE OCCURRED.
- F. EXTENT OF INJURIES IF ANY.
- G. THE POSSIBLE HAZARDS TO HUMAN HEALTH, OR THE ENVIRONMENT OUTSIDE THE FACILITY.
- H. WHAT CORRECTIVE ACTION IS BEING TAKEN.

IN ADDITION, IF THE SUBSTANCE RELEASED IS A REPORTABLE CERCLA OR EHS RELEASE (SEE EXHIBIT A (3) FOR DETAILS) THE FOLLOWING INFORMATION MUST ALSO BE GIVEN:

- I. WHETHER OR NOT THE SUBSTANCE IS ON THE EHS LIST.
- J. KNOWN OR ANTICIPATED ACUTE OR CHRONIC HEALTH RISKS ASSOCIATED WITH THE EMERGENCY.
- K. PROPER PRECAUTIONS TO TAKE AS A RESULT OF THE RELEASE, INCLUDING EVACUATION.

(9) AS SOON AS PRACTICAL AFTER AN INCIDENT, A WRITTEN REPORT DOCUMENTING THE NATURE OF THE INCIDENT SHALL BE COMPLETED BY THE ENVIRONMENTAL COMPLIANCE GROUP, REVIEWED BY DIVISION COUNSEL AND FORWARDED TO THE DEPT. OF ENVIRONMENTAL PROTECTION. A COPY OF THESE REPORTS MUST BE SENT TO THE P&W EPG. THE REPORTING FORM FOR THIS NOTIFICATION MAY BE FOUND AT THE END OF EXHIBIT A. DEPENDING UPON THE TYPE OF INCIDENT, ADDITIONAL WRITTEN REPORTS MAY ALSO NEED TO BE PREPARED AND SUBMITTED TO OTHER AGENCIES AS OUTLINED IN EXHIBIT A.

(10) ADDRESSES OF EMERGENCY COORDINATORS LISTED UNDER PARAGRAPH NO. 2

RICHARD ATWOOD	53 EDGERTON STREET	EAST HAMPTON, CT 06424	203-267-2708
WILLIAM CHUDZIK	66 HOLL STREET	MANCHESTER, CT 06040	203-649-6007
JOHN HURLEY	30 BEECHNUT LANE	SOUTH WINDSOR, CT 06074	203-289-4603
GEORGE JORDAN	18 PATRICIA DRIVE	VERNON, CT 00006066	203-875-9182
RUSSELL KEENE	76 COLBURN ROAD	STAFFORD SPRINGS, CT 06076	203-684-5221
RICHARD IVES	26 OLD ROUTE 89	LEBANON, CT 06249	203-423-5298
CANUTE VIRTUE	180 PEMROKE STREET	HARTFORD, CT 06112	203-242-0495

REVISED: NOVEMBER 1990

Items 3 through 7 of this section are specific response and clean-up procedures for use by primary response and waste treatment personnel. Knowledge of these procedures is beneficial for all regardless of involvement in this plan.

3. Response Procedures for Spills or Releases of Petroleum Products

Contact the Fire Department Dispatcher at the earliest possible moment. If such a release is caused by, or threatens to result in a fire or explosion, the response procedures described in Part 5 of this section shall be implemented in addition to the actions indicated below.

- a. Eliminate the source of the spill, if possible, without risk.
- b. Activate containment systems and/or dike the spill area with sawdust
- c. Remove recoverable material and continue to clean up spill area with sawdust as necessary.

4. Response Procedures for Spills or Releases of Hazardous Wastes

In the event of a release of hazardous waste to the environment, the following procedures should be implemented to contain, limit, and clean up the spill.

The Fire Department Dispatcher shall be contacted to activate the Emergency Reporting Procedure as soon as possible. In addition, all actions taken to contain, limit, and clean up a spill shall be undertaken with care and good judgement to avoid risk or injury to personnel and minimize the impact on the environment.

a. Acids

- (1) Eliminate source of spill if possible, without risk.
- (2) Dike spill area with Sodium Bicarbonate.
- (3) Remove incompatible materials.
- (4) Remove objects in spill area that have not yet been contacted.
- (5) Soak up spilled material with sodium Bicarbonate and remove for treatment or storage.

(6) After all soda ash has been removed, rinse spill area with water and drain to the Dilute Wastewater (DWW) line.

b. Alkalies

(1) Solid Material (Including Industrial Wastewater Treatment Plant Sludge)

- Eliminate source of spill if possible, without risk.
- Pick up spilled material and remove for treatment.
- Rinse spill area and any contacted objects with water and drain to the Dilute Wastewater (DWW) line.

(2) Liquid Material

- Eliminate source of spill if possible, without risk.
- Dike spill area with sodium bicarbonate.
- Remove incompatible materials.
- Remove objects which have not been contacted.
- Soak up spill with sodium bicarbonate ash and remove for treatment or storage.
- After removing soda ash, rinse spill area with water and drain to the Dilute Wastewater line.

c. Cyanides

CAUTION: Contact with acids will cause cyanide salts or their solutions to generate hydrogen cyanide gas which is extremely toxic and flammable.

Hydrogen cyanide gas can cause instantaneous loss of consciousness and death.

- (1) Eliminate source of spill if possible, without risk.
- (2) Dike spill area with sodium bicarbonate.
- (3) Remove incompatible materials.
- (4) Remove objects in spill area that have not yet been contacted.

- (5) Soak up spilled material with soda ash and remove for treatment. If solution is too strong for in-plant treatment, place in cyanide storage tank. Be sure all contacted material is removed for treatment.

d. Wax/Solvent, Oil/Solvent, Solvents, Paints

- (1) Eliminate source of spill if possible, without risk.
- (2) Remove sources of ignition.
- (3) Dike spill area with sawdust and dike and/or cover all manholes and/or storm drains.
- (4) Remove incompatible materials.
- (5) Remove objects in spill area that have not been contacted.
- (6) Soak up spilled material with sawdust. Remove for incineration.

5. Response Procedures for Fire and/or Explosion Involving Hazardous Waste

Contact the Fire Department Dispatcher at the earliest possible moment, and initiate the following actions:

- a. The fire alarm shall be sounded.
- b. The building shall be evacuated in accordance with the evacuation plan presented in Exhibit D.
- c. If possible without risk of personal injury, fire extinguishers shall be used to fight fires until the fire department arrives.
- d. Standard fire fighting procedures shall be directed at the scene by the appropriate fire officials, in consultation with the emergency coordinator and in accordance with coordination agreements described in this plan. These officials are on the distribution list for the Contingency Plan, therefore they are aware of the types of hazardous wastes involved.

Actions to prevent the recurrence or spread of fires/explosions or releases shall include stopping processes and operations, collecting and containing released wastes, and recovering or isolating containers.

6. Evacuation Plan

In the event of a sudden and uncontrollable occurrence such as fire, explosion, or major uncontrollable chemical spill, and if degree of risk precludes making an effort to stop or diminish the effects of the occurrence, the area of the occurrence should be evacuated immediately and in an orderly and efficient manner. An evacuation plan for the East Hartford manufacturing facility is presented in Exhibit D. This plan describes how evacuation will be initiated, how employees may exit from plant buildings, and where employees should assemble following evacuation.

7. Post-Emergency Actions

Immediately after an emergency, the emergency coordinator shall make arrangements for treatment, storage, or disposal of recovered oil or waste or any other contaminated material.

For hazardous waste incidents, the emergency coordinator must ensure that in the affected area(s) of the facility:

- a. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed.
- b. All emergency equipment is cleaned and fit for its intended use before operations are resumed.

The EPA Regional Administrator, the Commissioner of the DEP and appropriate local authorities must be notified that the facility is in compliance with (a) and (b) before operations are resumed. Details of the incident must be recorded in the facility operating record.

E. EMERGENCY EQUIPMENT

1. General

Emergency equipment and resources for response to fires, explosions or any release of hazardous waste which could threaten human health or the environment is provided at strategic locations at the East Hartford plant. Generally, this equipment may be divided into the following categories:

- Security systems and communications
- Fire fighting resources
- Personnel protection resources
- Spill control equipment

Descriptions of emergency equipment and resources are presented in the following paragraphs as well as a brief discussion of emergency equipment testing and maintenance procedures.

2. Security System and Communications

The Pratt & Whitney facility in East Hartford supports a full-time security force of 125 employees. Security at the plant is maintained on a 24-hour per day, seven-day per week basis by the company's own plant protection department. The property and the company's facilities are completely enclosed with six-foot high, steel mesh fence, and all entrance gates are either locked or manned by a plant security guard. During off shifts and weekends when the plant is not operating, the gates are locked and the security guard has a watchman clock that must be punched hourly.

Communication at the plant during emergencies may be established by telephone or the public address system. Locations of communication equipment are presented in Exhibit E.

3. Fire Fighting Resources

The Pratt & Whitney facility in East Hartford supports a full-time fire department of 76 employees. The fire department coverage is on a 24 hr/day, 7 day/week basis. In addition, Pratt & Whitney maintains the following emergency equipment: four fire trucks, three fire department vehicles, four security vehicles, and numerous specialized fire and security vehicles for use inside the factory.

Fire fighting equipment located throughout the facility includes sprinklers, fire hydrants, hose houses, and fire extinguishers. The locations and types of fire fighting equipment at the plant are listed in Exhibit E and maps showing their locations are presented in Exhibit F.

4. Personnel Protection Resources

The Pratt & Whitney facility in East Hartford supports a full-time medical staff of 26 employees. Medical staff coverage is on a 24 hour per day, 5 day per week basis with weekend coverage whenever overtime population warrants. One ambulance and a number of specialized emergency vehicles are maintained at the plant for use in medical emergencies.

Personnel protection equipment available throughout the plant to prevent medical emergencies includes the following:

- full protective clothing including face shields, boots, aprons, and gloves
- respirators
- Scott air paks
- emergency showers
- eye wash stations

Locations of personnel protection equipment at the East Hartford plant are listed in Exhibit E and maps identifying these locations are presented in Exhibit F.

5. Spill Control Equipment

Spill control equipment at the East Hartford plant includes the oil spill containment equipment described previously in Section B as well as the following:

- shovels and rakes
- brooms
- Speedi-Dri
- barrels
- hoses
- wet vacuums
- 375 gallon transporters
- emergency pumps
- sawdust
- sodium bicarbonate
- oil spill containment cart

A listing of the locations of this equipment at the plant is presented in Exhibit E and maps identifying these locations are presented in Exhibit F.

6. Emergency Equipment Testing and Maintenance

All fire/safety equipment is routinely inspected and maintained by the Pratt & Whitney Fire Department according to the National Fire Protection Codes. Equipment includes fire extinguishers and Scott Air Paks which are recharged immediately after use. Records of compliance with the codes are kept by the Fire Department.

As a matter of practice, the other emergency equipment is always replaced after it is used. All materials that are used in emergencies are always available at nearby Plant Engineering cribs.

7. Less Than 90 Day Storage Areas

There are several less than 90 day hazardous waste storage areas at the East Hartford Facility. The locations of these areas are identified on the map presented as Figure 4. A description of each location follows:

<u>Location No.</u>	<u>Description</u>
1	Rentschler Airport - outside UTC maintenance shop
2	Outside Maintenance Building - between GP #8 and east end of oil house (dept. 20STG)
3	Existing Oil Yard
4	Proposed Oil Yard
5	Gale Separator - outside H Building near GP #25
6	Paint Shop Dept. 21 - outside H Building near Dept. 619
7	Dept. 619 - Col. Z-22, H Building
8	Dept. 1017 - Col. T1, H Building
9	Dept. 953 - Col. Q1, L Building
10	Dept. 34 - Col. D10, L Building
11	Dept. 142 - Col. V27, A Building
12	CWTP-5

With the exception of locations 5, 9 and 12, all of the above locations are container storage areas. Locations 5, 9 and 12 are accumulation tanks. The types of waste streams handled at each location are as follows:

FIGURE 4
LESS THAN 90 DAY STORAGE LOCATIONS

**US EPA New England
RCRA Document Management System
Image Target Sheet**

RDMS Document ID # 2562

Facility Name: PRATT & WHITNEY - MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-1B

Purpose of Target Sheet:

☒ **Oversized (in Site File)** ☐ **Oversized (in Map Drawer)**

☐ **Page(s) Missing (Please Specify Below)**

☐ **Privileged** ☐ **Other (Provide Purpose Below)**

Description of Oversized Material, if applicable:

**FIGURE 4: LOCATIONS OF LESS THAN 90 DAY
STORAGE AREAS**

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

*** Please Contact the EPA New England RCRA Records Center to View This Document ***

<u>Location No.</u>	<u>Description</u>
1	Hazardous and non-hazardous waste oils, waste jet fuels, waste solvents.
2	All waste streams
3	F002, D001, U228, U220 - waste oils
4	F002, D001, U228, U220 - waste oils
5	Hazardous waste oils
6	D001 - waste paint, waste solvents, waste thinners
7	D002 - Kolene Salts
8	F002 - Maskant-Perchloroethylene, Solvent Rags
9	Waste Toluene, Xylene, Alcohol
10	Black oxide liquid D002, miscellaneous spent solvents, rags with chlorinated solvents
11	Gear grinding sludges (hazardous), waste oils
12	Various wastes from equipment decontamination

The following safety and emergency response equipment will be located near-by each of the less than 90 day storage areas. This equipment will be inspected weekly to ensure that it is maintained in good working condition:

A) Spill Control Equipment

- 1) Shovels, Rakes, and Brooms
- 2) Barrels
- 3) Sawdust and Absorbent Material
- 4) Barrels

B) Communication Equipment

- 1) Telephone

C) Fire Extinguishing Equipment

- 1) 6 lb. ABC

D) Personnel Safety Equipment

- 1) Full protective clothing, face shield, boots, aprons, gloves
- 2) Eye Wash Station

F. COORDINATION AGREEMENTS

Pratt & Whitney has been a member of the community of East Hartford, Connecticut for over 60 years, and throughout that time there has been a reciprocal arrangement between Pratt & Whitney and the Town of East Hartford to respond with security, fire or medical personnel and equipment whenever either might request assistance.

Formal arrangements have been made as necessary to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous wastes handled, entrances and roads inside the facility, normal working places and possible evacuation routes. The Contingency Plan has been distributed to the following agencies:

Town of East Hartford Police Department
Town of East Hartford Fire Department
Hartford Hospital
East Hartford Local Emergency Planning Committee

G. AMENDMENT AND DISTRIBUTION OF THE PLANS

1. Contingency Plan

As a RCRA Contingency Plan, this document will be reviewed and immediately amended, if necessary, whenever:

- (a) Applicable regulations are revised.
- (b) The plan fails in an emergency
- (c) The facility changes in its design, construction, operation, maintenance or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in any emergency.
- (d) The list of emergency coordinators changes.
- (e) The list of emergency equipment changes.

Amendments will be distributed to all personnel who receive this plan.

2. SPOC Plan

As an SPOC Plan, this document will be amended as required by the EPA Regional Administrator under 40 CFR 112.4. Under this regulation, the SPOC Plan is subject to review by EPA whenever a reportable spill occurs (see Section D).

The facility will amend the SPOC Plan in accordance with 40 CFR 112.5 whenever there is a change in facility design, construction, operation or maintenance which affects the facility's potential for the discharge of oil to navigable waters. The amendment shall be implemented within six months after such change occurs. In addition, the facility shall review the SPOC plan at least once every three years and update it as necessary to incorporate more effective technology, etc.

The distribution of the SPOC Plan is the same as for the Contingency Plan.

P&W - EH
ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT A
NOVEMBER 1990 REV. NO. 3

EXHIBIT A

FEDERAL, STATE AND LOCAL AGENCY NOTIFICATION
REQUIREMENTS FOR RELEASES WITH CONSOLIDATION
LIST OF COVERED SUBSTANCES

This exhibit contains a summary of the verbal and written notifications which must be made to federal, state and local agencies in the event of a release. It is divided into the following Sections:

- (1) Any Release/Incident
- (2) Hazardous Waste Release/Incident
- (3) CERCLA and/or EHS Release
- (4) Oil Release

Part (a) of each section contains verbal notification requirements and part (b) of each section contains written notification requirements.

It should be noted that Section (1) must be followed any time there is a release or incident involving oil, chemicals, waste, etc., while Sections (2) - (4) must be reviewed independently for applicability. If applicable, the requirements of Sections (2) - (4) must be completed in addition to the requirements of Section (1).

For further information or clarification of the reporting requirements, see the regulation referenced at the end of each section.

(1) ANY RELEASE/INCIDENT

- a) Any incident involving the discharge, spillage, uncontrolled loss or seepage of any oil or petroleum product, chemical product (solid, liquid or gas) or hazardous waste must be reported immediately to:

The Department of Environmental Protection at 203-566-3338 (This number is answered by the Connecticut State Police at times other than normal business hours).

- b) As soon as practical after an incident, a written report documenting the nature of the incident shall be completed by the Environmental Protection Group, reviewed by Division Counsel, and forwarded to:

The Department of Environmental Protection
Waste Management Bureau
Oil and Chemical Spill Section
18-20 Trinity Street
Hartford, CT 06106

The form at the end of this exhibit may be used to make this report.

REFERENCE: CT Clean Water Act 22a-450

(2) HAZARDOUS WASTE RELEASE/INCIDENT

- a) In addition to the notifications made under (1), any spill or release of a hazardous waste which exceeds the reportable quantity (RQ) for that waste must be reported immediately to:

The National Response Center at 800-424-8802

Hazardous wastes on the CERCLA list have the RQ's given on the list. (A combined CERCLA and EHS list with RQ's is available in the Environmental Protection Group.) All other hazardous wastes not on the CERCLA list have RQ's of 100 pounds, except for wastes which exhibit the characteristic of EP toxicity. EP toxic wastes have the RQ's listed on the CERCLA table for the contaminant on which the characteristic of EP toxicity is based. The RQ applies to the waste itself, not merely to the toxic contaminant. (If more than one RQ applies, always use the lowest.)

If the emergency coordinator determines that the facility has had a release, fire or explosion that could threaten human health or the environment outside the facility, this should also be reported immediately to:

East Hartford Local Emergency Planning Committee
at 203-289-2781

- b) Within 15 days after the incident a written report on the incident must be submitted to the EPA Regional Administrator and the Commissioner of the DEP. The report must include:
- Name, address and telephone number of the owner or operator
 - Name, address and telephone number of the facility
 - Date, time and type of incident
 - The extent of injuries, if any
 - An assessment of actual or potential hazards to human health or the environment
 - Estimated quantity and disposition of recovered material that resulted from the incident.

REFERENCES: CERCLA - 40 CFR Part 302
Federal Hazardous Waste Regs. - 40 CFR Part 264 Subpart D
Connecticut Hazardous Waste Regs. - 22a-449(c)-26

(3) CERCLA AND/OR EHS RELEASE

- a) In addition to the notifications made under (1), any release of a substance that is a CERCLA hazardous substance and/or an extremely hazardous substance (EHS) that exceeds the reportable quantity (RQ) for that substance must be reported immediately as follows:

(i) CERCLA and EHS

- Notify the National Response Center at 800-424-8802
- If the release poses a risk of exposure beyond the facility boundary, notify the State Emergency Response Commission at 203-566-4633 and the East Hartford Local Emergency Planning Committee at 203-289-2781

(ii) CERCLA Only

Same as (i) above

(iii) EHS Only

- If the release poses a risk of exposure beyond the facility boundary, notify the State Emergency Response Commission at 203-566-4633 and the East Hartford Local Emergency Planning Committee at 203-289-2781

A combined CERCLA and EHS list with RQ's is available in the Environmental Protection Group (see attached list).

- b) As soon as practicable after a release which required notification of the State Emergency Response Commission and the Local Emergency Planning Committee, a written follow-up notice must be sent to both groups. The written notice must contain:

- Name of chemical or substance involved in release
- Indication of whether the substance is an EHS
- Estimate of the quantity released to the environment
- Time and duration of the release
- Medium or media into which the release occurred
- Any known or anticipated acute or chronic health risks associated with the release
- Precautions taken as a result of the release including evacuation
- Actions taken to contain the release
- Where appropriate, advice regarding medical attention necessary for exposed individuals

REFERENCES: CERCLA - 40 CFR Part 302
Emergency Planning and Notification - 40 CFR Part 355

(4) OIL RELEASE

- a) In addition to the notifications made under (1), any release of oil in a harmful quantity into navigable waters must be reported immediately to:

The National Response Center at 800-424-8802

If the National Response Center (NRC) can not be reached, notify the US Coast Guard at 203-240-4260 and relay the information to the NRC as soon as possible afterward.

A harmful quantity of oil is defined as any amount that causes a violation of applicable water quality standards or causes a film or sheen or discoloration on the surface of the water.

- b) If an incident involves the discharge of more than 1000 gallons of oil or if the event is the second release of oil in a harmful quantity within one year, within 60 days the facility must submit a report containing the following information to the EPA Regional Administrator.

- Name of the facility;
- Name(s) of the owner or operator of the facility;
- Location of the facility;
- Date and year of initial facility operation;
- Maximum storage or handling capacity of the facility and normal daily throughput;
- Description of the facility, including maps, flow diagrams, and topographical maps;
- A complete copy of the SPCC Plan with any amendments;
- The cause(s) of such spill, including a failure analysis of system or sub-system in which the failure occurred;
- The corrective actions and/or countermeasures taken, including an adequate description of equipment repairs and/or replacements;
- Additional preventative measures taken or contemplated to minimize the possibility of recurrence;
- Such other information as the Regional Administrator may reasonably require pertinent to the Plan or spill event.

REFERENCES: Federal Oil Discharge Regulations - 40 CFR 110
SPCC Requirements - 40 CFR 112

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
State Office Building Hartford, Connecticut 06106

REPORT OF PETROLEUM OR CHEMICAL PRODUCT
DISCHARGE, SPILLAGE, SEEPAGE, FILTRATION

The following information is submitted concerning petroleum or chemical product discharge reported verbally to the Department of Environmental Protection/State Police at _____

on _____ at _____ by _____
 (date) (time) (name)

1. Time and date of discharge, spillage, etc.

2. Location, to include name of town, river, highway, distance from intersection, etc. of the pollution or contamination.

3. Type of oil, petroleum or chemical pollutant or contaminant.

4. Quantity of discharge, spillage, seepage, filtration.

5. Cause of pollution or contamination:

- a. Type of vessel, vehicle, containers, etc., which contained the pollutant or contaminant _____

- b. Describe in detail what actually occurred to cause discharge, spillage, seepage, filtration.

- 2 -

- c. If pollutant of contamination was a result of discharge, spillage, seepage, filtration from a moving vessel or vehicle, give location of departure and destination.

6. Name and address of owner of ship, boat or other vessel, terminal, establishment, vehicle, trailer or machine causing such pollution or contamination.

7. Name and address of person making this report.

8. Title, or relationship to owner, of person making report.

All statements contained herein are true to the best of my knowledge.

Signature of Person Making Report

DEPT. OF ENVIRONMENTAL PROTECTION
HAZARDOUS MATERIALS MANAGEMENT UNIT
OIL & CHEMICAL SPILLS SECTION
STATE OFFICE BUILDING
HARTFORD, CONNECTICUT 06106

Appendix 2(b)

Consolidated Chemical List
 (Alphabetical Listing)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
K043	- 2,6-DICHLOROPHENOL WASTE FROM 2,4-D PROD.	10	-	-	-	-	*	†
K064	- ACID PLANT BLOWDOWN SLURRY/SLUDGE FROM PRIMARY COPPER PRODUCTION	1	-	-	-	-	*	†
K080	- AMMONIA STILL LIME SLUDGE FROM COKING OPERATIONS	1	-	-	-	-	*	†
K051	- API SEPARATOR SLUDGE FR. PETROLEUM REFINING INDUSTRY	1	-	-	-	-	*	†
K021	- AQUEOUS SPENT ANTIMONY CATALYST WASTE FR. FLUOROMETHANES PROD.	10	-	-	-	-	*	†
K013	- BOTTOM STREAM FROM ACETONITRILE COLUMN IN PRODUCTION OF ACRYLONITRILE	10	-	-	-	-	*	†
K011	- BOTTOM STREAM FROM WASTEWATER STRIPPER IN PRODUCTION OF ACRYLONITRILE	10	-	-	-	-	*	†
K014	- BOTTOMS FROM ACETONITRILE PURIF. COLUMN IN PROD. OF ACRYLONITRILE	5000	-	-	-	-	*	†
K071	- BRINE PURIF. MUDS FR. MERCURY CELL PROCESS IN CHLORINE PROD. EXCEPT..	1	-	-	-	-	*	†
K031	- BY-PRODUCT SALTS GENERATED IN PROD. OF MSMA AND CACODYLIC ACID	1	-	-	-	-	*	†
K027	- CENTRIFUGE AND DISTILLATION RESIDUES FR. TOLUENE DIISOCYANATE PROD.	10	-	-	-	-	*	†
K073	- CHLORINATED HYDROCARBON WASTE FR. PURIF. STEP OF ... IN CHLORINE PROD	10	-	-	-	-	*	†
K107	- COLUMN BOTTOMS FROM PRODUCT SEPARATION FROM THE PROD. OF 1,1- DIMETHYLHYDRAZINE (UDMH) FR. CARBOXYLIC ACID HYDRAZINES	10	-	-	-	-	*	†
K030	- COLUMN BOTTOMS/HEAVY ENDS FR. COMBO PROD. TRI- AND PER- CHLOROETHYLENE	1	-	-	-	-	*	†
K104	- COMBINED WASTEWATER STREAMS GEN. NITROBENZENE/ANILINE CHLOROBENZINES	10	-	-	-	-	*	†
K108	- CONDENSED COLUMN OVERHEADS FR. PRODUCT SEPARATION AND CONDENSED REACTOR VENT GASES FR. PROD. OF 1,1- DIMETHYLHYDRAZINE (UDMH) FR. CARBOXYLIC HYDRAZINES	10	-	-	-	-	*	†
K110	- CONDENSED COLUMN OVERHEADS FR. INTERMEDIATE SEPARATION FR. PROD. OF 1,1-DIMETHYLHYDRAZINE (UDMH) FR. CARBOXYLIC HYDRAZINES	10	-	-	-	-	*	†
F025	- CONDENSED LIGHT ENDS, SPENT FILTERS AND FILTER AIDS, AND SPENT DESICCANT WASTES FR. PROD. OF CERTAIN CHLORINATED ALIPHATIC HYDROCARBONS BY FREE RADICAL CATALYZED PROCESSES	1	-	-	-	-	*	†
K113	- CONDENSED LIQUID LIGHT ENDS FR. PURIF. TOLUENEDIAMINE IN PROD. VIA...	10	-	-	-	-	*	†
K067	- DECANter TANK TAR SLUDGE FROM COKING OPERATIONS	100	-	-	-	-	*	†
F027	- DISCARDED, UNUSED FORMU.W/ TRI, TETRA, PENTACHLOROPHENOLS OR DERIVATIVES	1	-	-	-	-	*	†
K048	- DISSOLVED AIR FLOTATION (DAF) FLOAT FR. PETROLEUM REFINING INDUSTRY	1	-	-	-	-	*	†

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
K022	- DISTILLATION BOTTOM TARS FR. PROD. OF PHENOL/ACETONE FR. CUMENE	1	-	-	-	-	•	†
K006	- DISTILLATION BOTTOMS FR. PROD. 1,1,1- TRICHLOROETHANE	100	-	-	-	-	•	†
K025	- DISTILLATION BOTTOMS FR. PROD. NITROBENZENE BY NITRATION OF BENZENE	10	-	-	-	-	•	†
K024	- DISTILLATION BOTTOMS FR. PROD. PHTHALIC ANHYDRIDE FR. NAPHTHALENE	5000	-	-	-	-	•	†
K004	- DISTILLATION BOTTOMS FR. PROD. PHTHALIC ANHYDRIDE FR. ORTHO- XYLENE	5000	-	-	-	-	•	†
K003	- DISTILLATION BOTTOMS FROM ANILINE EXTRACTION	100	-	-	-	-	•	†
K009	- DISTILLATION BOTTOMS FROM PRODUCTION OF ACETALDEHYDE FROM ETHYLENE	10	-	-	-	-	•	†
K023	- DISTILLATION LIGHT ENDS FR. PROD. PHTHALIC ANHYDRIDE FR. NAPHTHALENE	5000	-	-	-	-	•	†
K003	- DISTILLATION LIGHT ENDS FR. PROD. PHTHALIC ANHYDRIDE FR. ORTHO- XYLENE	5000	-	-	-	-	•	†
K005	- DISTILLATION OR FRACTIONATION COLUMN BOTTOMS FROM CHLOROBENZENE PROD.	10	-	-	-	-	•	†
K010	- DISTILLATION SIDE CUTS FROM PRODUCTION OF ACETALDEHYDE FROM ETHYLENE	10	-	-	-	-	•	†
K101	- DISTILLATION TAR RESIDUES FR. ANILINE- BASED COMPOUNDS VET. PHARMACEUT	1	-	-	-	-	•	†
08	- ELECTROPLATING BATH SLUDGES FROM BOTTOMS USING CYANIDES	10	-	-	-	-	•	†
K001	- EMISSION CONTROL DUST OR SLUDGE FROM FERROCHROMIUM PRODUCTION	1	-	-	-	-	•	†
K090	- EMISSION CONTROL DUST OR SLUDGE FROM FERROCHROMIUM SILICON PROD.	1	-	-	-	-	•	†
K061	- EMISSION CONTROL DUST/SLUDGE FR. PRIM. PROD. STEEL IN ELEC. FURNACES	1	-	-	-	-	•	†
K009	- EMISSION CONTROL DUST/SLUDGE FR. SECONDARY LEAD SMELTING	1	-	-	-	-	•	†
K039	- FILTER CAKE FR. FILTR. DIETHYLPHOSPHORODITHIOIC ACID IN PHOSPHATE PROD.	10	-	-	-	-	•	†
K034	- FILTER SOLIDS FR. FILTR. HEXACHLOROCYCLOPENTADIENE IN CHLORDANE PROD.	10	-	-	-	-	•	†
K060	- HEAT EXCHANGER BUNDLE CLEANING SLUDGE FR. PETROLEUM REFINING INDUSTRY	10	-	-	-	-	•	†
K006	- HEAVY ENDS FR. HEAVY ENDS COLUMN FR. PROD. 1,1,1-TRICHLOROETHANE	100	-	-	-	-	•	†
K019	- HEAVY ENDS FROM DISTILLATION IN PRODUCTION OF ETHYLENE DICHLORIDE	1	-	-	-	-	•	†
K020	- HEAVY ENDS FROM DISTILLATION IN PRODUCTION OF VINYL CHLORIDE MONOMERS	1	-	-	-	-	•	†
K018	- HEAVY ENDS FROM FRACTIONATION COLUMN IN PRODUCTION OF ETHYL CHLORIDE	1	-	-	-	-	•	†
K016	- HEAVY ENDS OR DISTILLATION RESIDUES FROM PROD. OF CARBON TETRACHLORIDE	1	-	-	-	-	•	†
K115	- HEAVY ENDS PURIF. TOLUENEDIAMINE IN PROD. VIA HYDROG. DINITROTOLUENE	10	-	-	-	-	•	†
K017	- HEAVY ENDS (STILL BOTTOMS) FROM PURIF. COLUMN IN PROD. EPICHLOROHYDRIN	10	-	-	-	-	•	†

CAS or Other
 I.D. No.

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K042	-	HEAVY ENDS/DIST. RESIDUES FR. DIST. TETRACHLOROBENZENE IN 2,4,5-T FR.	10	-	-	-	-	*	†
K116	-	ORGANIC CONDENS. FR. SOLVENT RECOVERY COLUMN TOLUENE DIISOCYANATE VIA	10	-	-	-	-	*	†
K008	-	OVEN RESIDUE FROM THE PRODUCTION OF CHROME OXIDE GREEN PIGMENTS	10	-	-	-	-	*	†
K047	-	PINK/RED WATER FROM TNT OPERATIONS	10	-	-	-	-	*	†
K103	-	PROCESS RESIDUES FROM ANILINE EXTRACTION FROM ANILINE PROD.	100	-	-	-	-	*	†
F024	-	PROCESS WASTES FR. PROD. OF CERTAIN CHLORINATED ALIPHATIC HYDROCARBONS BY FREE RADICAL CATALYZED PROCESSES	1	-	-	-	-	*	†
K111	-	PRODUCT WASHWATERS FROM PROD. DINITROTOLUENE VIA NITRATION OF TOLUENE	10	-	-	-	-	*	†
F010	-	QUENCHING BATH SLUDGE (OIL BATH) (METAL HEAT TREATING) USING CYANIDES	10	-	-	-	-	*	†
F012	-	QUENCHING WASTEWATER TREAT SLUDGES FR. METAL HEAT TREAT USING CYANIDES	10	-	-	-	-	*	†
K112	-	REACT. BY-PROD. WATER FR. DRYING COLUMN PROD. TOLUENEDIAMINE VIA...	10	-	-	-	-	*	†
K102	-	RESIDUE FR. ACTIVATED CARBON FOR DECOLORIZATION PROD. VET. PHARMACEUT	1	-	-	-	-	*	†
F028	-	RESIDUE FR. INCIN./THERMAL TREAT. SOIL CONTAMINATED W/SPECIFIED WASTE	1	-	-	-	-	*	†
K105	-	SEPARATED AQUEOUS STREAM FR. REACTOR PROD. WASHING STEP IN CHLOROBENZ.	10	-	-	-	-	*	†
K049	-	SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY	1	-	-	-	-	*	†
K066	-	SLUDGE FROM ... PROCESS WASTEWATER AND/OR ACID PLANT BLOWDOWN FROM PRIMARY ZINC PROD.	1	-	-	-	-	*	†
K001	-	SLUDGE OF WOOD PRESERVING PROCESSES USING CREOSOTE/PENTACHLOROPHENOL	1	-	-	-	-	*	†
K086	-	SOLVENT, WATER, CAUSTIC WASHES & SLUDGES CLEANING EQUIP. FOR INK FORMU.	1	-	-	-	-	*	†
F002	-	SPECIFIED SPENT HALOGENATED SOLVENTS AND STILL BOTTOMS FR. RECOVERY	10	-	-	-	-	*	†
F001	-	SPECIFIED SPENT HALOGENATED SOLVENTS USED DEGREASING & SLUDGES FR. REC	10	-	-	-	-	*	†
F005	-	SPECIFIED SPENT NON-HALOGENATED SOLVENTS & STILL BOTTOMS FR. RECOVERY	100	-	-	-	-	*	†
F004	-	SPECIFIED SPENT NON-HALOGENATED SOLVENTS & STILL BOTTOMS FR. RECOVERY	1000	-	-	-	-	*	†
F003	-	SPECIFIED SPENT NON-HALOGENATED SOLVENTS & STILL BOTTOMS FR. RECOVERY	100	-	-	-	-	*	†
K118	-	SPENT ABSORBENT SOLIDS FR. PURIF. ETHYLENE DIBROMIDE IN PROD. OF IT	1	-	-	-	-	*	†
K132	-	SPENT ADSORBANT AND WASTEWATER SEPARATOR SOLIDS	1000	-	-	-	-	*	†
K045	-	SPENT CARBON FROM TREAT. OF WASTEWATER CONTAINING EXPLOSIVES	10	-	-	-	-	*	†
K028	-	SPENT CATALYST FR. HYDROCHLORINATOR REACTOR IN 1,1,1-TRICHLOROETHANE	1	-	-	-	-	*	†
F007	-	SPENT CYANIDE ELECTROPLATING BATH SOLUTIONS W/ SPECIFIED EXCEPTIONS	10	-	-	-	-	*	†

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPG	E H S	O S H	T O X I C	C E R C L A	NOTES
F011	- SPENT CYANIDE SOLUTIONS FR SALT BATH POT CLEANING (METAL HEAT TREAT)	10	-	-	-	-	*	†
K109	- SPENT FILTER CARTRIDGES FR. PRODUCT PURIF. FR. PROD. OF 1,1- DIMETHYLHYDRAZINE (UDMH) FR. CARBOXYLIC ACID HYDRAZINES	10	-	-	-	-	*	†
K062	- SPENT PICKLE LIQUOR FR. STEEL FINISHING OPERATIONS	1	-	-	-	-	*	†
K088	- SPENT POTLINERS FROM PRIMARY ALUMINUM REDUCTION	1	-	-	-	-	*	†
F009	- SPENT STRIPPING & CLEANING SOLUTIONS (ELECTROPLATING) USING CYANIDES	10	-	-	-	-	*	†
K136	- STILL BOTTOMS FR. PURIF. ETHYLENE DIBROMIDE IN PROD. VIA BROMINATION	1	-	-	-	-	*	†
K036	- STILL BOTTOMS FR. TOLUENE RECLAMATION DISTIL. IN DISULFOTON PROD.	1	-	-	-	-	*	†
K015	- STILL BOTTOMS FROM THE DISTILLATION OF BENZYL CHLORIDE	10	-	-	-	-	*	†
K026	- STRIPPING STILL TAILS FR. PROD. METHYL ETHYL PYRIDINES	1000	-	-	-	-	*	†
K065	- SURFACE IMPOUNDMENT SOLIDS FROM PRIMARY LEAD SMELTING FACILITIES	1	-	-	-	-	*	†
K062	- TANK BOTTOMS (LEADED) FR. PETROLEUM REFINING INDUSTRY	10	-	-	-	-	*	†
D017	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - 2,4,5-TP	100	-	-	-	-	*	†
D016	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - 2,4-D	100	-	-	-	-	*	†
D004	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - ARSENIC	1	-	-	-	-	*	†
5	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - BARIUM	1000	-	-	-	-	*	†
D006	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - CADMIUM	10	-	-	-	-	*	†
D007	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - CHROMIUM	10	-	-	-	-	*	†
D012	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - ENDRIN	1	-	-	-	-	*	†
D008	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - LEAD	1	-	-	-	-	*	†
D013	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - LINDANE	1	-	-	-	-	*	†
D009	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - MERCURY	1	-	-	-	-	*	†
D014	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - METHOXYCHLOR	1	-	-	-	-	*	†
D010	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - SELENIUM	10	-	-	-	-	*	†
D011	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - SILVER	1	-	-	-	-	*	†
D015	- UNLISTED HAZ. WASTE CHARACTERISTIC OF EP TOXICITY - TOXAPHENE	1	-	-	-	-	*	†
D002	- UNLISTED HAZARDOUS WASTES - CHARACTERISTIC OF CORROSIVITY	100	-	-	-	-	*	†
D--(RCRA)	- UNLISTED HAZARDOUS WASTES - CHARACTERISTIC OF EP TOXICITY	-	-	-	-	-	*	†
D001	- UNLISTED HAZARDOUS WASTES - CHARACTERISTIC OF IGNITABILITY	100	-	-	-	-	*	†
D003	- UNLISTED HAZARDOUS WASTES - CHARACTERISTIC OF REACTIVITY	100	-	-	-	-	*	†
K098	- UNTREATED PROCESS WASTEWATER FR. TOXAPHENE PROD.	1	-	-	-	-	*	†
K099	- UNTREATED WASTEWATER FR. 2,4-D PROD.	10	-	-	-	-	*	†
K097	- VACUUM STRIPPER DISCHARGE FR. CHLORDANE CHLORINATOR IN CHLORDANE PROD.	1	-	-	-	-	*	†
K114	- VICINALS FR. PURIF. TOLUENEDIAMINE IN PROD. VIA HYDROG. DINITROTOLUEN	10	-	-	-	-	*	†
V	- WASTE FR. PRODUCT STEAM STRIPPER IN 1,1,1-TRICHLOROETHANE PROD.	1	-	-	-	-	*	†

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
K100	- WASTE LEACHING SOLUTION -- (COMPONENTS IDENTICAL WITH THOSE OF K088)	1	-	-	-	-	*	†
K033	- WASTE- & SCRUBWATER FR. CHLORIN. CYCLOPENTADIENE IN CHLORDANE PROD.	10	-	-	-	-	*	†
F022	- WASTES FR. MANU. USE OF TETRA-,PENTA-, OR HEXACHLOROBENZENE (ALKALINE)	1	-	-	-	-	*	†
F026	- WASTES FR. PROD. MATERIALS ON EQUIP. FOR TETRA,PENTA,HEXACHLOROBENZEN	1	-	-	-	-	*	†
F023	- WASTES FR. PROD. OF MATERIALS ON EQUIP. FOR TRI- & TETRACHLOROPHENOLS	1	-	-	-	-	*	†
F021	- WASTES IN PROD. OR MANU. OF PENTACHLOROPHENOL/INTERMED. TO PROD. DERIV	1	-	-	-	-	*	†
F020	- WASTES IN PROD. OR MANU. OF TRI- OR TETRACHLOROPHENOL, OR PEST. DERIV	1	-	-	-	-	*	†
K117	- WASTEWATER FR. REACTION VENT GAS SCRUBBER PROD. ETHYLENE BROMIDE VIA	1	-	-	-	-	*	†
K131	- WASTEWATER FROM REACTOR AND ACID DRYER	100	-	-	-	-	*	†
K038	- WASTEWATER FR. WASHING AND STRIPPING OF PHORATE PROD.	10	-	-	-	-	*	†
K006	- WASTEWATER SLUDGE FR. PROD. CHROME OXIDE GREEN PIGMENTS (ANHY. & HYD.)	10	-	-	-	-	*	†
K002	- WASTEWATER SLUDGE FROM PRODUCTION OF CHROME YELLOW & ORANGE PIGMENTS	1	-	-	-	-	*	†
K003	- WASTEWATER SLUDGE FROM PRODUCTION OF MOLYBDATE ORANGE PIGMENTS	1	-	-	-	-	*	†
K046	- WASTEWATER TR. SLUDGE FROM MANU. FORMU. LOADING OF LEAD-BASED INITIATOR	100	-	-	-	-	*	†
K040	- WASTEWATER TREAT. SLUDGE FROM PHORATE PROD.	10	-	-	-	-	*	†
K032	- WASTEWATER TREAT. SLUDGE FROM PROD. OF CHLORDANE	10	-	-	-	-	*	†
K041	- WASTEWATER TREAT. SLUDGE FROM TOXAPHENE PROD.	1	-	-	-	-	*	†
K037	- WASTEWATER TREAT. SLUDGES FROM DISULFOTON PROD.	1	-	-	-	-	*	†
K044	- WASTEWATER TREAT. SLUDGES FROM MANU. & PROCESSING OF EXPLOSIVES	10	-	-	-	-	*	†
K035	- WASTEWATER TREAT. SLUDGES GENERATED IN CREOSOTE PROD.	1	-	-	-	-	*	†
K084	- WASTEWATER TREAT. SLUDGES IN PROD. OF VETERINARY PHARMACEUT (ARSENIC)	1	-	-	-	-	*	†
K108	- WASTEWATER TREATMENT SLUDGE FR. MERCURY CELL PROCESS IN CHLORINE PROD	1	-	-	-	-	*	†
K005	- WASTEWATER TREATMENT SLUDGE FROM PRODUCTION OF CHROME GREEN PIGMENTS	1	-	-	-	-	*	†
K007	- WASTEWATER TREATMENT SLUDGE FROM PRODUCTION OF IRON BLUE PIGMENTS	10	-	-	-	-	*	†
K004	- WASTEWATER TREATMENT SLUDGE FROM PRODUCTION OF ZINC YELLOW PIGMENTS	10	-	-	-	-	*	†
F019	- WASTEWATER TREATMENT SLUDGES (CHEM. CONVERSION COATING OF ALUMINUM)	10	-	-	-	-	*	†
F006	- WASTEWATER TREATMENT SLUDGES (ELECTROPLATING) W/ SPECIFIED EXCEPTIONS	10	-	-	-	-	*	†

[Chemical List continued on next page]

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
83-32-9	- ACENAPHTHENE	100	-	-	-	-	•	-
208-96-8	- ACENAPHTHYLENE	5000	-	-	-	-	•	-
105-57-7	- ACETAL	-	-	-	-	-	•	-
75-07-0	- ACETALDEHYDE	1000	-	-	•	•	•	-
107-20-0	- ACETALDEHYDE, CHLORO-	1000	-	-	7	-	•	-
75-87-6	- ACETALDEHYDE, TRICHLORO-	5000	-	-	-	-	•	-
60-35-5	- ACETAMIDE	-	-	-	-	•	-	-
640-19-7	- ACETAMIDE, 2-FLUORO-	100	-	7	-	-	•	-
62-44-2	- ACETAMIDE, N-(4-ETHOXYPHENYL)-	100	-	-	7	-	•	-
591-08-2	- ACETAMIDE, N-(AMINOTHIOXOMETHYL)-	1000	-	-	-	-	•	-
53-96-3	- ACETAMIDE, N-9H-FLUOREN-2-YL-	1	-	-	7	7	•	-
64-19-7	- ACETIC ACID	5000	-	-	•	-	•	-
141-78-6	- ACETIC ACID, ETHYL ESTER	5000	-	-	7	-	•	-
62-74-8	- ACETIC ACID, FLUORO-, SODIUM SALT	10	-	7	1	-	•	-
301-04-2	- ACETIC ACID, LEAD SALT	5000	-	-	7	-	•	-
583-68-8	- ACETIC ACID, THALLIUM(I) SALT	100	-	-	-	-	•	-
108-24-7	- ACETIC ANHYDRIDE	5000	-	-	•	-	•	-
16752-77-6	- ACETIMIDIC ACID, N-METHYLCARBAMOYL) OXYTHIO-, METHYL ESTER	100	-	7	7	-	•	-
67-64-1	- ACETONE	5000	-	-	•	•	•	-
75-86-5	- ACETONE CYANOHYDRIN	10	1000	•	-	-	•	-
1752-30-3	- ACETONE THIOSEMICARBAZIDE	1	1000/10000	•	-	-	-	e
75-05-8	- ACETONITRILE	5000	-	-	•	•	•	-
81-81-2	3-(ALPHA- ACETONYLBENZYL)-4-HYDROXYCOUMARIN AND SALTS	100	-	7	7	-	•	-
98-86-2	- ACETOPHENONE	5000	-	-	-	-	•	-
506-96-7	- ACETYL BROMIDE	5000	-	-	-	-	•	-
75-36-5	- ACETYL CHLORIDE	5000	-	-	-	-	•	-
591-08-2	1- ACETYL-2-THIOUREA	1000	-	-	-	-	•	-
53-96-3	2- ACETYLAMINOFLUORENE	1	-	-	-	•	•	-
86-2	- ACETYLENE	-	-	-	•	-	-	-
27-6	- ACETYLENE TETRABROMIDE	-	-	-	•	-	-	-
50-78-2	- ACETYLSALICYLIC ACID (ASPIRIN)	-	-	-	•	-	-	-
260-94-6	- ACRIDINE	-	-	-	•	-	-	-
107-02-8	- ACROLEIN	1	500	•	•	•	•	-
79-06-1	- ACRYLAMIDE	5000	1000/10000	•	•	•	•	d
79-10-7	- ACRYLIC ACID	5000	-	-	•	•	•	-
107-13-1	- ACRYLONITRILE	100	10000	•	•	•	•	d
814-68-6	- ACRYLYL CHLORIDE	1	100	•	-	-	-	eh
13768-00-8	- ACTINOLITE	-	-	-	•	-	-	-
50-76-0	- ACTINOMYCIN D	-	-	-	•	-	-	-
72766-92-8	- ACTINOMYCIN D	-	-	-	•	-	-	-
124-04-9	- ADIPIC ACID	5000	-	-	-	-	•	-
111-69-3	- ADIPONITRILE	1	1000	•	-	-	-	el
23214-92-8	- ADRIAMYCIN	-	-	-	•	-	-	-
3688-53-7	- AF-2	-	-	-	•	-	-	-
1182-65-8	- AFLATOXIN B1	-	-	-	•	-	-	-
1402-68-2	- AFLATOXINS	-	-	-	•	-	-	-
148-82-3	- ALANINE, 3-P-BIS(2-CHLOROETHYL)AMINOPHENYL-,L	1	-	-	7	-	•	-
116-06-3	- ALDICARB	1	100/10000	•	-	-	•	e
308-00-2	- ALDRIN	1	500/10000	•	•	•	•	d
107-18-6	- ALLYL ALCOHOL	100	1000	•	•	•	•	-
107-05-1	- ALLYL CHLORIDE	1000	-	-	•	•	•	-
106-92-3	- ALLYL GLYCIDYL ETHER (AGE)	-	-	-	•	-	-	-
2179-59-1	- ALLYL PROPYL DISULFIDE	-	-	-	•	-	-	-
107-11-9	- ALLYLAMINE	1	500	•	-	-	-	e
1344-28-1	ALPHA- ALUMINA	-	-	-	•	7	-	-
7429-90-5	- ALUMINUM	-	-	-	•	7	-	-
7429-90-5	- ALUMINUM (FUME OR DUST)	-	-	-	7	•	-	-
7429-90-5	- ALUMINUM ALKYL (NOC)-NOT OTHERWISE CITED	-	-	-	•	7	-	-
7429-90-5	- ALUMINUM METAL	-	-	-	•	7	-	-
1344-28-1	- ALUMINUM OXIDE	-	-	-	•	-	-	-
1344-28-1	- ALUMINUM OXIDE (FIBROUS FORMS)	-	-	-	7	•	-	-
20859-73-8	- ALUMINUM PHOSPHIDE	100	500	•	-	-	•	b
7429-90-5	- ALUMINUM PYRO POWDERS	-	-	-	•	7	-	-
10043-01-3	- ALUMINUM SULFATE	5000	-	-	-	-	•	-
7429-90-5	- ALUMINUM, SOLUBLE SALTS	-	-	-	•	7	-	-
7429-90-5	- ALUMINUM, WELDING FUMES	-	-	-	•	7	-	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RG	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
82-28-0	1- AMINO-2-METHYLANTHRAQUINONE	-	-	-	?	•	-	-
712-68-5	2- AMINO-5-(5-NITRO-2-FURYL)-1,3,4- THIADIAZOLE	-	-	-	•	-	-	-
117-79-3	2- AMINOANTHRAQUINONE	-	-	-	•	•	-	-
60-09-3	4- AMINOAZOBENZENE	-	-	-	-	•	-	-
97-56-3	0- AMINOAZOTOLUENE	-	-	-	-	?	-	-
92-67-1	4- AMINOBIPHENYL	-	-	-	•	•	-	-
92-67-1	4- AMINODIPHENYL	-	-	-	•	•	-	-
2763-96-4	5- AMINOMETHYL-3-ISOXAZOLOL	1000	-	?	-	-	•	-
54-62-6	- AMINOPTERIN	1	500/10000	•	-	-	-	•
504-24-5	4- AMINOPYRIDINE	1000	-	?	-	-	-	-
504-29-0	2- AMINOPYRIDINE	-	-	-	-	-	-	-
2432-99-7	11- AMINOUNDECANOIC ACID	-	-	-	-	-	-	-
78-53-5	- AMITON	1	500	•	-	-	-	•
3734-97-2	- AMITON OXALATE	1	100/10000	•	-	-	-	•
61-82-5	- AMITROLE	10	-	-	-	-	-	-
7664-41-7	- AMMONIA	100	500	•	•	•	•	1
631-61-8	- AMMONIUM ACETATE	5000	-	-	-	-	•	-
1863-63-4	- AMMONIUM BENZOATE	5000	-	-	-	-	•	-
1066-33-7	- AMMONIUM BICARBONATE	5000	-	-	-	-	•	-
7789-09-5	- AMMONIUM BICHROMATE	10	-	-	-	-	•	-
1341-49-7	- AMMONIUM BIFLUORIDE	100	-	-	-	-	•	-
10192-30-0	- AMMONIUM BISULFITE	5000	-	-	-	-	•	-
1111-78-0	- AMMONIUM CARBAMATE	5000	-	-	-	-	•	-
506-87-6	- AMMONIUM CARBONATE	5000	-	-	-	-	•	-
12125-02-9	- AMMONIUM CHLORIDE	5000	-	-	-	-	•	-
12125-02-9	- AMMONIUM CHLORIDE-FUME	-	-	-	-	-	?	-
7788-98-9	- AMMONIUM CHROMATE	10	-	-	-	-	•	-
3012-65-5	- AMMONIUM CITRATE, DIBASIC	5000	-	-	-	-	•	-
13826-83-0	- AMMONIUM FLUOBORATE	5000	-	-	-	-	•	-
12125-01-8	- AMMONIUM FLUORIDE	100	-	-	-	-	•	-
1336-21-6	- AMMONIUM HYDROXIDE	1000	-	-	-	-	•	-
6484-52-2	- AMMONIUM NITRATE (SOLUTION)	-	-	-	-	-	•	-
5972-73-6	- AMMONIUM OXALATE	5000	-	-	-	-	•	-
6009-70-7	- AMMONIUM OXALATE	5000	-	-	-	-	•	-
14258-49-2	- AMMONIUM OXALATE	5000	-	-	-	-	•	-
3825-26-1	- AMMONIUM PERFLUOROOCTANOATE	-	-	-	-	-	•	-
131-74-8	- AMMONIUM PICRATE	10	-	-	-	-	•	-
16919-19-0	- AMMONIUM SILICOFLUORIDE	1000	-	-	-	-	•	-
7773-06-0	- AMMONIUM SULFAMATE	5000	-	-	-	-	•	-
7783-20-2	- AMMONIUM SULFATE (SOLUTION)	-	-	-	-	-	•	-
12135-76-1	- AMMONIUM SULFIDE	100	-	-	-	-	•	-
10196-04-0	- AMMONIUM SULFITE	5000	-	-	-	-	•	-
3164-29-2	- AMMONIUM TARTRATE	5000	-	-	-	-	•	-
14307-43-8	- AMMONIUM TARTRATE	5000	-	-	-	-	•	-
1762-95-4	- AMMONIUM THIOCYANATE	5000	-	-	-	-	•	-
7783-18-8	- AMMONIUM THIOSULFATE	5000	-	-	-	-	•	-
7803-55-6	- AMMONIUM VANADATE	1000	-	-	-	-	•	-
12172-73-5	- AMOSITE	-	-	-	-	-	•	-
300-62-9	- AMPHETAMINE	1	1000	•	-	-	-	•
123-92-2	ISO- AMYL ACETATE	5000	-	-	?	-	•	-
625-16-1	TERT- AMYL ACETATE	5000	-	-	-	-	•	-
626-38-0	SEC- AMYL ACETATE	5000	-	-	-	-	•	-
628-63-7	N- AMYL ACETATE	-	-	-	-	-	?	-
628-63-7	- AMYL ACETATE	5000	-	-	?	-	•	-
62-53-3	- ANILINE	5000	1000	•	•	•	•	4)
88-05-1	- ANILINE, 2,4,6-TRIMETHYL-	1	500	•	-	-	-	•
90-04-0	O- ANISIDINE	-	-	-	-	-	•	-
104-24-9	P- ANISIDINE	-	-	-	-	-	•	-
29191-52-4	- ANISIDINE (O,P-ISOMERS)	-	-	-	-	-	•	-
134-29-2	O- ANISIDINE HYDROCHLORIDE	-	-	-	-	-	•	-
17068-78-9	- ANTHOPHYLLITE	-	-	-	-	-	•	-
120-12-7	- ANTHRACENE	5000	-	-	-	-	•	-
7440-36-0	- ANTIMONY	5000	-	-	-	-	•	-
7440-36-0	- ANTIMONY COMPOUNDS	-	-	-	-	-	?	-
-	- ANTIMONY COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	-	•	-
7647-18-9	- ANTIMONY PENTACHLORIDE	1000	-	-	-	-	•	-
7783-70-2	- ANTIMONY PENTAFLUORIDE	1	500	•	-	-	-	•
28300-74-5	- ANTIMONY POTASSIUM TARTRATE	100	-	-	-	-	•	-
7789-61-9	- ANTIMONY TRIBROMIDE	1000	-	-	-	-	•	-

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
10025-91-9	-	ANTIMONY TRICHLORIDE	1000	-	-	-	•	-
7783-58-4	-	ANTIMONY TRIFLUORIDE	1000	-	-	-	•	-
1309-64-4	-	ANTIMONY TRIOXIDE	1000	-	•	-	•	-
1309-64-4	-	ANTIMONIUM TRIOXIDE, HANDLING AND USE, AS SB	-	-	•	-	?	-
1309-64-4	-	ANTIMONY TRIOXIDE, PRODUCTION	-	-	•	-	?	-
1397-94-0	-	ANTIMYCIN A	1	1000/10000	•	-	-	cs
-	-	ANTHRACENE OILS	-	-	•	-	-	-
86-88-4	-	ANTU	100	500/10000	•	-	?	-
140-57-8	-	ARAMITE	-	-	•	-	-	-
7440-37-1	-	ARGON	-	-	•	-	-	-
12674-11-2	-	AROCLOR 1016	1	-	-	-	•	-
11104-28-2	-	AROCLOR 1221	1	-	-	-	•	-
11141-16-5	-	AROCLOR 1232	1	-	-	-	•	-
53469-21-9	-	AROCLOR 1242	1	-	-	?	•	-
12672-29-6	-	AROCLOR 1248	1	-	-	-	•	-
11097-69-1	-	AROCLOR 1254	1	-	-	?	•	-
11096-82-5	-	AROCLOR 1260	1	-	-	-	•	-
7440-38-2	-	ARSENIC	1	-	-	•	•	-
1327-52-2	-	ARSENIC ACID	1	-	-	-	•	-
7778-39-4	-	ARSENIC ACID	1	-	-	-	•	-
1327-52-2	-	ARSENIC ACID H3ASO4	1	-	-	-	•	-
7778-39-4	-	ARSENIC ACID H3ASO4	1	-	-	-	•	-
7440-38-2	-	ARSENIC AND COMPOUNDS	-	-	•	?	?	-
-	-	ARSENIC COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	•	•	-
1303-32-8	-	ARSENIC DISULFIDE	1	-	-	-	•	-
1303-28-2	-	ARSENIC PENTOXIDE	1	100/10000	•	•	•	d
7784-34-1	-	ARSENIC TRICHLORIDE	1	-	?	-	•	-
1327-53-3	-	ARSENIC TRIOXIDE	1	-	?	-	•	-
1327-53-3	-	ARSENIC TRIOXIDE PRODUCTION	-	-	?	•	?	-
33-33-9	-	ARSENIC TRISULFIDE	1	-	-	-	•	-
27-53-3	-	ARSENIC OXIDE AS2O3	1	-	?	?	•	-
1303-28-2	-	ARSENIC OXIDE AS2O5	1	-	?	?	•	-
7440-38-2	-	ARSENIC, INORGANIC COMPOUNDS	-	-	-	?	?	-
7440-38-2	-	ARSENIC, ORGANIC COMPOUNDS	-	-	-	?	?	-
7440-38-2	-	ARSENIC, SOLUBLE COMPOUNDS	-	-	-	?	?	-
1327-53-3	-	ARSENOUS OXIDE	1	100/10000	•	?	?	dh
7784-34-1	-	ARSENOUS TRICHLORIDE	1	500	•	-	?	d
7784-42-1	-	ARSINE	1	100	•	-	-	•
692-42-2	-	ARSINE, DIETHYL	1	-	-	-	•	-
75-60-6	-	ARSINIC ACID, DIMETHYL	1	-	-	-	•	-
1332-21-4	-	ASBESTOS	1	-	-	?	•	-
1332-21-4	-	ASBESTOS (FRIABLE)	-	-	-	?	?	-
12001-28-4	-	ASBESTOS, CROCIDOLITE	-	-	-	•	-	-
12001-29-5	-	ASBESTOS, CHRYSOTILE	-	-	-	•	-	-
8052-42-4	-	ASPHALT	-	-	-	•	-	-
8062-42-4	-	ASPHALT (PETROLEUM) FUMES	-	-	-	•	-	-
1912-24-9	-	ATRAZINE	-	-	-	•	-	-
492-80-8	-	AURAMINE	100	-	-	•	?	-
2465-27-2	-	AURAMINE	-	-	-	•	-	-
492-80-8	-	AURAMINE, MANUFACTURE OF	-	-	-	•	?	?
2465-27-2	-	AURAMINE, MANUFACTURE OF	-	-	-	•	-	-
492-80-8	-	AURAMINE, TECHNICAL GRADE	-	-	-	•	?	?
115-02-6	-	AZASERINE	1	-	-	•	-	-
446-86-6	-	AZATHIOPRINE	-	-	-	•	-	-
2642-71-9	-	AZINPHOS-ETHYL	1	100/10000	•	-	-	•
86-50-0	-	AZINPHOSMETHYL	1	10/10000	•	•	-	?
151-56-4	-	AZIRIDINE	1	-	?	?	?	•
75-55-8	-	AZIRIDINE, 2-METHYL	1	-	?	?	?	•
50-07-7	-	AZIRINO(2,3:3,4)PYRROLO(1,2-A)INDOLE- 4,7-DIONE, 6,6-(SEE MITOMYCIN C)	10	-	?	?	-	•
7440-39-3	-	BARIUM	-	-	-	•	•	-
-	-	BARIUM COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	•	-	-
542-62-1	-	BARIUM CYANIDE	10	-	-	-	•	-
7440-39-3	-	BARIUM, SOLUBLE COMPOUNDS	-	-	-	•	?	-
17804-35-2	-	BENOMYL	-	-	-	•	-	-
98-87-3	-	BENZAL CHLORIDE	5000	500	•	-	•	d
21-0	-	BENZAMIDE	-	-	-	•	-	-
55-3	1,2-	BENZANTHRACENE	10	-	-	?	-	-
1-97-6	1,2-	BENZANTHRACENE, 7,12-DIMETHYL-	1	-	-	-	•	-

Appendix 2(b)

CAS or Other I.D. No.		CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
62-53-3	-	BENZENAMINE	5000	-	?	?	?	*	-
95-53-4	-	BENZENAMINE, 2-METHYL	100	-	-	?	?	*	-
638-21-5	-	BENZENAMINE, 2-METHYL-, HYDROCHLORIDE	100	-	-	?	?	*	-
99-55-8	-	BENZENAMINE, 2-METHYL-5-NITRO	100	-	-	-	-	*	-
98-16-8	-	BENZENAMINE, 3-(TRIFLUOROMETHYL)-	1	500	*	-	-	-	*
106-49-0	-	BENZENAMINE, 4-METHYL	100	-	-	?	-	*	-
492-80-8	-	BENZENAMINE, 4,4'- CARBONIMIDOYLBIS(N,N-DIMETHYL-	100	-	-	?	?	*	-
101-14-4	-	BENZENAMINE, 4,4'-METHYLENEBIS(2- CHLORO-	10	-	-	?	?	*	-
106-47-8	-	BENZENAMINE, 4-CHLORO	1000	-	-	-	-	*	-
3185-93-3	-	BENZENAMINE, 4-CHLORO-2-METHYL-, HYDROCHLORIDE	100	-	-	-	-	*	-
100-01-6	-	BENZENAMINE, 4-NITRO	5000	-	-	?	-	*	-
60-11-7	-	BENZENAMINE, N,N-DIMETHYL-4- PHENYLazo-	10	-	-	?	?	*	-
71-43-2	-	BENZENE	10	-	-	*	*	*	-
72-54-8	1,2-	BENZENE, 1,1'-(2,2- DICHLOROETHYLIDENE) BIS(4-CHLORO-	1	-	-	-	-	*	-
50-29-3	-	BENZENE, 1,1'-(2,2,2- TRICHLOROETHYLIDENE) BIS(4-CHLORO	1	-	-	?	-	*	-
95-94-3	-	BENZENE, 1,2,4,5-TETRACHLORO-	5000	-	-	-	-	*	-
95-50-1	-	BENZENE, 1,2-DICHLORO-	100	-	-	?	?	*	-
99-35-4	-	BENZENE, 1,3,5-TRINITRO-	10	-	-	-	-	*	-
541-73-1	-	BENZENE, 1,3-DICHLORO-	100	-	-	-	?	*	-
106-46-7	-	BENZENE, 1,4-DICHLORO-	100	-	-	?	?	*	-
100-14-1	-	BENZENE, 1-(CHLOROMETHYL)-4-NITRO-	1	500/10000	*	-	-	-	*
101-55-3	-	BENZENE, 1-BROMO-4-PHENOXY-	100	-	-	-	-	*	-
121-14-2	-	BENZENE, 1-METHYL-2,4-DINITRO-	10	-	-	-	?	*	-
98-82-8	-	BENZENE, 1-METHYLETHYL-	5000	-	-	?	?	*	-
606-20-2	-	BENZENE, 2-METHYL-1,3-DINITRO-	100	-	-	-	?	*	-
91-08-7	-	BENZENE, 2,4-DIISOCYANATOMETHYL-	100	-	-	?	?	*	-
584-84-9	-	BENZENE, 2,4-DIISOCYANATOMETHYL-	100	-	-	?	?	*	-
26471-62-5	-	BENZENE, 2,4-DIISOCYANATOMETHYL-	100	-	-	?	?	*	-
108-90-7	-	BENZENE, CHLORO-	100	-	-	?	?	*	-
100-44-7	-	BENZENE, CHLOROMETHYL-	100	-	-	?	?	*	-
98-87-3	-	BENZENE, DICHLOROMETHYL-	5000	-	-	?	?	*	-
95-47-6	O-	BENZENE, DIMETHYL	1000	-	-	?	?	*	-
106-42-3	P-	BENZENE, DIMETHYL	1000	-	-	?	?	*	-
108-38-3	M-	BENZENE, DIMETHYL	1000	-	-	?	?	*	-
1330-20-7	-	BENZENE, DIMETHYL-	1000	-	-	-	?	*	-
118-74-1	-	BENZENE, HEXACHLORO-	10	-	-	?	?	*	-
110-82-7	-	BENZENE, HEXAHYDRO-	1000	-	-	?	?	*	-
108-95-2	-	BENZENE, HYDROXY-	1000	-	-	?	?	*	-
108-88-3	-	BENZENE, METHYL-	1000	-	-	?	?	*	-
98-95-3	-	BENZENE, NITRO	1000	-	-	?	?	*	-
608-93-5	-	BENZENE, PENTACHLORO-	10	-	-	-	-	*	-
82-68-8	-	BENZENE, PENTACHLORONITRO-	100	-	-	-	?	*	-
98-07-7	-	BENZENE, TRICHLOROMETHYL	10	-	-	?	?	*	-
510-15-6	-	BENZENEACETIC ACID, 4-CHLORO-ALPHA- (4-CHLOROPHENYL)-ALPHA-HYDROXY...	10	-	-	-	?	*	-
98-05-5	-	BENZENEARSONIC ACID	1	10/10000	*	-	-	-	*
305-03-3	-	BENZENEBUTANOIC ACID, 4-[BIS(2- CHLOROETHYL)AMINO]-	10	-	-	?	-	*	-
95-80-7	-	BENZENEDIAMINE, AR-METHYL-	10	-	-	?	?	*	-
496-72-0	-	BENZENEDIAMINE, AR-METHYL-	10	-	-	-	-	*	-
823-40-5	-	BENZENEDIAMINE, AR-METHYL-	10	-	-	-	-	*	-
25376-45-8	-	BENZENEDIAMINE, AR-METHYL-	10	-	-	-	?	*	-
85-44-9	1,2-	BENZENEDICARBOXYLIC ACID ANHYDRIDE	5000	-	-	?	?	*	-
117-84-0	1,2-	BENZENEDICARBOXYLIC ACID, DI-N- OCTYL ESTER	5000	-	-	-	?	*	-
84-74-2	1,2-	BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER	10	-	-	?	?	*	-
84-66-2	1,2-	BENZENEDICARBOXYLIC ACID, DIETHYL ESTER	1000	-	-	?	?	*	-
131-11-3	1,2-	BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER	5000	-	-	?	?	*	-
117-81-7	1,2-	BENZENEDICARBOXYLIC ACID, [BIS(2- ETHYLHEXYL)] ESTER	100	-	-	?	?	*	-

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
108-46-3	1,3- BENZENEDIOL	5000	-	-	?	-	•	-
51-43-4	1,2- BENZENEDIOL, 4-(1-HYDROXY-2-(METHYLAMINO)ETHYL)-	1000	-	-	-	-	•	-
98-09-9	- BENZENESULFONIC ACID CHLORIDE	100	-	-	-	-	•	-
98-09-9	- BENZENESULFONYL CHLORIDE	100	-	-	-	-	•	-
108-98-5	- BENZENETHIOL	100	-	?	?	-	•	-
92-87-5	- BENZIDINE	1	-	-	•	•	•	-
3815-21-2	- BENZIMIDAZOLE, 4,5-DICHLORO-2-(TRIFLUOROMETHYL)-	1	500/10000	•	-	-	-	eg
81-07-2	1,2- BENZISOTHAZOLIN-3-ONE, 1,1-DIOXIDE, AND SALTS	100	-	-	?	?	•	-
50-32-8	- BENZO(A)PYRENE	1	-	-	•	-	•	-
205-99-2	- BENZO(B)FLUORANTHENE	1	-	-	•	-	•	-
205-82-3	- BENZO(J)FLUORANTHENE	-	-	-	•	-	•	-
207-08-9	- BENZO(K)FLUORANTHENE	5000	-	-	•	-	•	-
189-55-9	- BENZO (BST) PENTAPHENE	10	-	-	?	-	•	-
94-59-7	1,3- BENZODIOXOLE, 5-(2-PROPENYL)-	100	-	-	?	?	•	-
120-58-1	1,3- BENZODIOXOLE, 5-(1-PROPENYL)-	100	-	-	?	-	•	-
94-58-6	1,3- BENZODIOXOLE, 5-PROPYL-	10	-	-	?	-	•	-
65-85-0	- BENZOIC ACID	5000	-	-	-	-	•	-
98-07-7	- BENZOIC TRICHLORIDE (BENZOTRICHLORIDE)	10	100	•	•	•	•	d
100-47-0	- BENZONITRILE	5000	-	-	-	-	•	-
50-32-8	3,4- BENZOPYRENE	1	-	-	?	-	•	-
106-51-4	P- BENZOQUINONE	10	-	-	?	?	•	-
98-07-7	- BENZOTRICHLORIDE	10	100	•	•	?	•	d
-	- BENZOTRICHLORIDE, CHLORINATED TOLUENES (PRODUCTION OF)	-	-	-	•	-	-	-
98-88-4	- BENZOYL CHLORIDE	1000	-	-	-	•	•	-
94-36-0	- BENZOYL PEROXIDE	-	-	-	•	•	-	-
56-55-3	- BENZO(A)ANTHRACENE	10	-	-	?	-	•	-
191-24-2	- BENZO(GH)PERYLENE	5000	-	-	-	-	•	-
106-44-0	- BENZO(J,K)FLUORENE	100	-	-	-	-	•	-
18-01-9	1,2- BENZPHENANTHRENE	100	-	-	?	-	•	-
100-44-7	- BENZYL CHLORIDE	100	500	•	•	•	•	d
140-29-4	- BENZYL CYANIDE	1	500	•	-	-	-	eh
1694-09-3	- BENZYL VIOLET	10	-	-	•	-	•	-
56-55-3	- BENZ(A)ANTHRACENE	10	-	-	•	-	•	-
225-51-4	- BENZ(J)ACRIDINE	100	-	-	-	-	•	-
56-49-6	- BENZ(J)ACEANTHRYLENE, 1,2-DIHYDRO-3-METHYL	10	-	-	-	-	•	-
1302-52-9	- BERYL	-	-	-	•	-	-	-
7440-41-7	- BERYLLIUM	10	-	-	-	•	•	-
12770-50-2	- BERYLLIUM ALUMINUM ALLOY	-	-	-	•	-	-	-
7440-41-7	- BERYLLIUM AND COMPOUNDS	-	-	-	•	?	?	-
66104-24-3	- BERYLLIUM CARBONATE	-	-	-	•	-	-	-
7787-47-5	- BERYLLIUM CHLORIDE	1	-	-	•	-	•	-
-	- BERYLLIUM COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	•	•	-
7440-41-7	- BERYLLIUM DUST	10	-	-	?	?	•	-
7787-49-7	- BERYLLIUM FLUORIDE	1	-	-	•	-	•	-
13598-15-7	- BERYLLIUM HYDROGEN PHOSPHATE	-	-	-	•	-	-	-
13327-32-7	- BERYLLIUM HYDROXIDE	-	-	-	•	-	-	-
778-75-5	- BERYLLIUM NITRATE	1	-	-	-	-	-	-
13597-99-4	- BERYLLIUM NITRATE	1	-	-	-	-	•	-
1304-56-9	- BERYLLIUM OXIDE	-	-	-	•	-	-	-
13598-00-0	- BERYLLIUM SILICATE	-	-	-	•	-	-	-
13510-49-1	- BERYLLIUM SULFATE	-	-	-	•	-	-	-
7787-56-6	- BERYLLIUM SULFATE TETRAHYDRATE	-	-	-	•	-	-	-
58-89-9	GAMMA - BHC	1	-	?	?	?	•	-
319-84-6	ALPHA - BHC	10	-	-	?	-	•	-
319-85-7	BETA - BHC	1	-	-	?	-	•	-
319-86-8	DELTA - BHC	1	-	-	-	-	•	-
15271-41-7	- NICYCLO(2,2,1)HEPTANE-2-CARBONITRILE, 5-CHLORO...	1	500/10000	•	-	-	-	•
1464-53-5	2,2'- BIOXIRANE	10	-	-	?	?	?	-
92-52-4	- BIPHENYL	-	-	-	•	•	-	-
92-87-5	(1,1'- BIPHENYL)-4,4'DIAMINE	1	-	-	?	?	•	-
91-94-1	(1,1'- BIPHENYL)-4,4'DIAMINE, 3,3'DICHLORO-	1	-	-	?	?	•	-
119-90-4	(1,1'- BIPHENYL)-4,4'DIAMINE, 3,3'DIMETHOXY-	100	-	-	?	?	•	-
119-93-7	(1,1'- BIPHENYL)-4,4'DIAMINE, 3,3'DIMETHYL-	10	-	-	?	?	•	-

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
111-44-4	-	BIS (2-CHLOROETHYL) ETHER	10	-	-	?	?	-
108-60-1	-	BIS (2-CHLOROISOPROPYL) ETHER	1000	-	-	-	?	-
108-60-1	-	BIS(2-CHLORO-1-METHYLETHYL) ETHER	-	-	-	-	?	-
111-91-1	-	BIS(2-CHLOROETHOXY) METHANE	1000	-	-	-	?	-
103-23-1	-	BIS(2-ETHYLHEXYL)ADIPATE	-	-	-	-	?	-
117-81-7	-	BIS(2-ETHYLHEXYL)PHTHALATE	100	-	-	?	?	-
542-88-1	-	BIS(CHLOROMETHYL) ETHER	1	-	-	?	?	-
534-07-6	-	BIS(CHLOROMETHYL) KETONE	1	-	10/10000	-	-	-
137-26-8	-	BIS(DIMETHYLTHIOCARBAMOYL) DISULFIDE	10	-	-	?	-	-
542-88-1	-	BIS-CHLOROMETHYL ETHER (BCME)	-	-	-	?	?	-
154-93-8	-	BISCHLOROETHYL NITROSOUREA (BCNU)	-	-	-	-	-	-
1304-82-1	-	BISMUTH TELLURIDE	-	-	-	-	-	-
1304-82-1	-	BISMUTH TELLURIDE (SE-DOPED)	-	-	-	-	-	-
4044-65-9	-	BITOSCANATE	1	-	500/10000	-	-	-
-	-	BITUMENS (PETROLEUM-DERIVED), AIR- REFINED - EXTRACTS	-	-	-	-	-	-
-	-	BITUMENS (PETROLEUM-DERIVED), STEAM-REFINED - EXTRACTS	-	-	-	-	-	-
1330-43-4	-	BORATES, TETRA, SODIUM SALTS - ANHYDROUS	-	-	-	-	-	-
1303-96-4	-	BORATES, TETRA, SODIUM SALTS - DECAHYDRATE	-	-	-	-	-	-
12179-04-3	-	BORATES, TETRA, SODIUM SALTS - PENTAHYDRATE	-	-	-	-	-	-
1303-86-2	-	BORON OXIDE	-	-	-	-	-	-
10294-33-4	-	BORON TRIBROMIDE	-	-	-	-	-	-
10294-34-5	-	BORON TRICHLORIDE	1	-	500	-	-	-
7637-07-2	-	BORON TRIFLUORIDE	1	-	500	-	-	-
353-42-4	-	BORON TRIFLUORIDE COMPOUND WITH METHYL ETHER (1:1)	1	-	1000	-	-	-
314-40-9	-	BROMACIL	-	-	-	-	-	-
28772-56-7	-	BROMADIOLONE	1	-	100/10000	-	-	-
7726-95-6	-	BROMINE	1	-	500	-	-	-
506-68-3	-	BROMINE CYANIDE	1000	-	-	?	-	-
7789-30-2	-	BROMINE PENTAFLUORIDE	-	-	-	-	-	-
598-31-2	-	BROMOACETONE	1000	-	-	-	-	-
75-25-2	-	BROMOFORM	100	-	-	-	?	-
75-25-2	-	BROMOFORM (TRIBROMOMETHANE)	-	-	-	?	?	-
74-83-9	-	BROMOMETHANE (METHYL BROMIDE)	-	-	?	?	?	-
101-55-3	4-	BROMOPHENYL PHENYL ETHER	100	-	-	-	-	-
357-57-3	-	BRUCINE	100	-	-	-	-	-
106-99-0	1,3-	BUTADIENE	-	-	-	-	-	-
87-08-3	1,3-	BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-	1	-	-	-	-	-
924-16-3	1-	BUTANAMINE, N-BUTYL-N-NITROSO-	10	-	-	?	?	-
106-97-8	-	BUTANE	-	-	-	-	-	-
55-98-1	1,4-	BUTANEDIOL DIMETHANESULPHONATE	-	-	-	-	-	-
303-34-4	2-	BUTANOIC ACID, 2-METHYL-, 7- [(2,3- DIHYDROXY-2-(1-METHOXYETHYL)...	10	-	-	?	-	-
71-36-3	1-	BUTANOL	5000	-	-	?	?	-
78-93-3	2-	BUTANONE	5000	-	-	?	?	-
1338-23-4	2-	BUTANONE PEROXIDE	10	-	-	?	-	-
123-73-9	2-	BUTENAL	100	-	-	?	-	-
4170-30-3	2-	BUTENAL	100	-	-	?	-	-
764-41-0	2-	BUTENE, 1,4-DICHLORO-	1	-	-	-	-	-
111-78-2	2-	BUTOXYETHANOL	-	-	-	-	-	-
105-46-4	SEC-	BUTYL ACETATE	5000	-	-	-	-	-
110-19-0	ISO-	BUTYL ACETATE	5000	-	-	?	-	-
123-86-4	N-	BUTYL ACETATE	-	-	-	-	-	-
123-86-4	-	BUTYL ACETATE	5000	-	-	?	-	-
540-88-5	TERT-	BUTYL ACETATE	5000	-	-	-	-	-
141-32-2	-	BUTYL ACRYLATE	-	-	-	-	-	-
71-36-3	N-	BUTYL ALCOHOL	5000	-	-	-	-	-
75-65-0	TERT-	BUTYL ALCOHOL	-	-	-	-	-	-
78-92-2	SEC-	BUTYL ALCOHOL	-	-	-	-	-	-
85-68-7	-	BUTYL BENZYL PHTHALATE	100	-	-	-	-	-
1189-85-1	TERT-	BUTYL CHROMATE, AS (CRO3)	-	-	-	-	-	-
2428-08-6	N-	BUTYL GLYCIDYL ETHER (BGE)	-	-	-	-	-	-
138-22-7	N-	BUTYL LACTATE	-	-	-	-	-	-
109-79-5	-	BUTYL MERCAPTAN	-	-	-	-	-	-
126-73-8	-	BUTYL PHOSPHATE	-	-	-	-	-	-

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
84-74-2	N- BUTYL PHTHALATE	10	-	-	?	?	•	-
98-51-1	P-TERT- BUTYL TOLUENE	-	-	-	•	-	-	-
75-84-9	TERT- BUTYLAMINE	1000	-	-	-	-	•	-
78-81-9	ISO- BUTYLAMINE	1000	-	-	-	-	•	-
109-73-9	- BUTYLAMINE	1000	-	-	•	-	•	-
513-49-5	SEC- BUTYLAMINE	1000	-	-	-	-	•	-
13952-84-6	SEC- BUTYLAMINE	1000	-	-	-	-	•	-
106-88-7	1,2- BUTYLENE OXIDE	-	-	-	-	•	-	-
89-72-5	O-SEC- BUTYLPHENOL	-	-	-	•	-	-	-
123-72-8	- BUTYRALDEHYDE	-	-	-	-	•	-	-
79-31-2	ISO- BUTYRIC ACID	5000	-	-	-	-	•	-
107-92-6	- BUTYRIC ACID	5000	-	-	-	-	•	-
3068-88-0	BETA- BUTYROLACTONE	-	-	-	•	-	-	-
4680-78-8	- C.I. ACID GREEN 3	-	-	-	-	•	-	-
569-64-2	- C.I. BASIC GREEN 4	-	-	-	-	•	-	-
989-38-8	- C.I. BASIC RED 1	-	-	-	-	•	-	-
1937-37-7	- C.I. DIRECT BLACK 38	-	-	-	•	•	-	-
72-57-1	- C.I. DIRECT BLUE 14	-	-	-	•	•	?	-
2602-46-2	- C.I. DIRECT BLUE 6	-	-	-	•	•	-	-
16071-86-6	- C.I. DIRECT BROWN 95	-	-	-	•	•	-	-
82-28-0	- C.I. DISPERSE ORANGE 11	-	-	-	•	?	-	-
2832-40-8	- C.I. DISPERSE YELLOW 3	-	-	-	-	•	-	-
81-88-9	- C.I. FOOD RED 15	-	-	-	-	•	-	-
3761-53-3	- C.I. FOOD RED 5	-	-	-	?	•	-	-
2646-17-5	- C.I. SOLVENT ORANGE 2	-	-	-	•	-	-	-
3118-97-8	- C.I. SOLVENT ORANGE 7	-	-	-	-	•	-	-
842-07-9	- C.I. SOLVENT YELLOW 14	-	-	-	-	•	-	-
97-56-3	- C.I. SOLVENT YELLOW 3	-	-	-	?	•	-	-
492-80-8	- C.I. SOLVENT YELLOW 34 (AURAMINE)	1	-	-	•	•	•	-
128-66-5	- C.I. VAT YELLOW 4	-	-	-	-	•	-	-
75-60-5	- CACODYLIC ACID	1	-	-	-	-	•	-
0-43-9	- CADMIUM	10	-	-	•	•	•	-
-90-8	- CADMIUM ACETATE	10	-	-	-	-	•	-
1789-42-6	- CADMIUM BROMIDE	10	-	-	-	-	•	-
10108-64-2	- CADMIUM CHLORIDE	10	-	-	-	-	•	-
-	- CADMIUM COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	•	•	-
7440-43-9	- CADMIUM DUST	-	-	-	•	?	?	-
7440-43-9	- CADMIUM FUME	-	-	-	•	?	?	-
1306-19-0	- CADMIUM OXIDE	1	100/10000	•	•	-	-	•
1306-19-0	- CADMIUM OXIDE, FUME, AS CD	-	-	?	•	-	-	-
1306-19-0	- CADMIUM OXIDE, PRODUCTION	-	-	?	•	-	-	-
7440-43-9	- CADMIUM SALTS	-	-	-	•	?	?	-
2223-93-0	- CADMIUM STEARATE	1	1000/10000	•	-	-	-	c,s
10124-36-4	- CADMIUM SULFATE	-	-	-	•	-	-	-
1306-23-6	- CADMIUM SULFIDE	-	-	-	•	•	-	-
7440-43-9	- CADMIUM COMPOUNDS	-	-	-	•	?	?	-
7778-44-1	- CALCIUM ARSENATE	1	500/10000	•	-	-	•	d
52740-16-6	- CALCIUM ARSENITE	1	-	-	-	-	•	-
75-20-7	- CALCIUM CARBIDE	10	-	-	-	-	•	-
1317-65-3	- CALCIUM CARBONATE/MARBLE	-	-	-	•	-	-	-
13765-19-0	- CALCIUM CHROMATE	10	-	-	•	-	•	-
13765-19-0	- CALCIUM CHROMATE, SINTERED	-	-	-	•	-	?	-
156-82-7	- CALCIUM CYANAMIDE	-	-	-	•	•	-	-
592-01-8	- CALCIUM CYANIDE	10	-	-	-	-	•	-
26264-06-2	- CALCIUM DODECYLBENZENE SULFONATE	1000	-	-	-	-	•	-
1305-62-0	- CALCIUM HYDROXIDE	-	-	-	•	-	-	-
7778-54-3	- CALCIUM HYPOCHLORITE	10	-	-	-	-	•	-
1305-78-8	- CALCIUM OXIDE	-	-	-	•	-	-	-
1344-95-2	- CALCIUM SILICATE	-	-	-	•	-	-	-
8001-35-2	- CAMPHECHLOR	1	500/10000	•	?	?	?	d
8001-35-2	- CAMPHENE, OCTACHLORO-	1	-	?	?	?	•	-
76-22-2	- CAMPHOR	-	-	-	•	-	-	-
56-25-7	- CANTHARIDIN	1	100/10000	•	-	-	-	•
105-60-2	- CAPROLACTAM	-	-	-	•	-	-	-
105-60-2	- CAPROLACTAM, DUST	-	-	-	•	-	-	-
05-60-2	- CAPROLACTAM, VAPOR AND AEROSOL	-	-	-	•	-	-	-
2425-06-1	- CAPTAFOL	-	-	-	•	-	-	-
133-06-2	- CAPTAN	10	-	-	•	?	•	-

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
133-06-2	- CAPTAN (1H-ISOINDOLE-1,3(2H)- DIONE,3A,4,7,7A-TETRAHYDRO-2- (TRICHLOROM	10	-	-	*	*	*	-
51-83-2	- CARBACHOL CHLORIDE	1	500/10000	*	-	-	-	*
51-79-6	- CARBAMIC ACID, ETHYL ESTER	100	-	-	?	?	*	-
28419-73-8	- CARBAMIC ACID, METHYL-0-[(2,4- DIMETHYL...	1	100/10000	*	-	-	-	*
615-53-2	- CARBAMIC ACID, METHYLNITROSO- ETHYL ESTER	1	-	-	?	-	*	-
79-44-7	- CARBAMIC CHLORIDE, DIMETHYL-	1	-	-	?	?	*	-
759-73-9	- CARBAMIDE, N-ETHYL-N-NITROSO-	1	-	-	?	?	*	-
684-93-5	- CARBAMIDE, N-METHYL-N-NITROSO-	1	-	-	?	?	*	-
630-10-4	- CARBAMIMIDOSELENOIC ACID	1000	-	-	-	-	*	-
2303-16-4	- CARBAMOTHIOIC ACID, BIS(1- METHYLETHYL)-, S(2,3-DICHLORO-2- PROPENYL)ESTER	100	-	-	-	?	*	-
63-25-2	- CARBARYL	100	-	-	*	?	*	-
63-25-2	- CARBARYL (1-NAPHTHALENOL, METHYLCARBAMATE)	100	-	-	*	*	*	-
1563-66-2	- CARBOFURAN	10	10/10000	*	*	-	*	-
75-15-0	- CARBON BISULFIDE	100	-	?	?	?	*	-
1333-86-4	- CARBON BLACK	-	-	-	*	-	-	-
1333-86-4	- CARBON BLACKS, SOLVENT (BENZENE) EXTRACTS	-	-	-	*	-	-	-
124-38-9	- CARBON DIOXIDE	-	-	-	*	-	-	-
75-15-0	- CARBON DISULFIDE	100	10000	*	*	*	*	1
630-08-0	- CARBON MONOXIDE	-	-	-	*	-	-	-
353-50-4	- CARBON OXYFLUORIDE	1000	-	-	?	-	*	-
558-13-4	- CARBON TETRABROMIDE	-	-	-	*	-	-	-
56-23-5	- CARBON TETRACHLORIDE	10	-	-	*	*	*	-
6533-73-9	- CARBONIC ACID, DITHALLIUM(I) SALT	100	100/10000	?	-	-	*	ch
3333-67-3	- CARBONIC ACID, NICKEL SALT	-	-	-	-	-	-	-
463-58-1	- CARBONL SULFIDE	-	-	-	-	*	-	-
79-22-1	- CARBONCHLORIDIC ACID, METHYL ESTER	1000	-	?	-	-	*	-
75-44-5	- CARBONYL CHLORIDE	10	-	?	?	?	*	-
353-50-4	- CARBONYL FLUORIDE	1000	-	-	*	-	*	-
786-19-6	- CARBOPHENOTHION	1	500	*	-	-	-	*
9000-07-1	- CARRAGEENAN (DEGRADED)	-	-	-	*	-	-	-
120-80-9	- CATECHOL	-	-	-	*	*	-	-
120-80-9	- CATECHOL (PYROCATECHOL)	-	-	-	*	?	-	-
9004-34-6	- CELLULOSE (PAPER FIBER)	-	-	-	*	-	-	-
21351-79-1	- CESIUM HYDROXIDE	-	-	-	*	-	-	-
-	- CHEMOTHERAPY FOR LYMPHOMAS (INCLUDING MOPP), CERTAIN COMBINED	-	-	-	*	-	-	-
75-87-6	- CHLORAL	5000	-	-	-	-	*	-
133-90-4	- CHLORAMBEN (BENZOIC ACID, 3-AMINO- 2,5-DICHLORO-)	-	-	-	-	*	-	-
305-03-3	- CHLORAMBUCIL	10	-	-	*	-	*	-
56-75-7	- CHLORAMPHENICOL	-	-	-	*	-	-	-
57-74-9	- CHLORDANE	1	1000	*	*	?	*	d
57-74-9	- CHLORDANE, ALPHA & GAMMA ISOMERS	1	-	?	?	?	*	-
-	- CHLORDANE (TECHNICAL MIXTURE AND METABOLITES)	-	-	-	-	-	*	-
57-74-9	- CHLORDANE (4,7- METHANOINDAN,1,2,4,5,6,7,8,8- OCTACHLORO-2,3,3A,4,7,7A-H	1	1000	*	*	*	*	d
57-74-9	- CHLORDANE, TECHNICAL	1	-	?	?	?	*	-
143-50-0	- CHLORDEONE (KEPONE)	-	-	-	*	-	?	-
470-90-6	- CHLORFENVINOS	1	500	*	-	-	-	*
-	- CHLORINATED BENZENES	-	-	-	-	-	*	-
9001-35-2	- CHLORINATED CAMPHENE	-	-	?	*	?	?	-
55720-99-5	- CHLORINATED DIPHENYL OXIDE	-	-	-	*	-	-	-
-	- CHLORINATED ETHANES	-	-	-	-	-	*	-
-	- CHLORINATED NAPHTHALENE	-	-	-	-	-	*	-
-	- CHLORINATED PHENOLS	-	-	-	-	-	*	-
7782-50-5	- CHLORINE	10	100	*	*	*	*	-
506-77-4	- CHLORINE CYANIDE	10	-	-	?	-	*	-
10049-04-4	- CHLORINE DIOXIDE	-	-	-	*	*	-	-
7790-91-2	- CHLORINE TRIFLUORIDE	-	-	-	*	-	-	-
24934-91-6	- CHLORMEPHOS	1	500	*	-	-	-	*

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C H R O C L A	NOTES
999-81-5	-	1	100/10000	*	-	-	-	ah
494-03-1	-	100	-	-	*	-	-	-
600-25-9	1-	-	-	-	*	-	-	-
59-50-7	P-	5000	-	-	-	-	-	-
59-50-7	4-	5000	-	-	-	-	-	-
95-83-0	4-	-	-	-	-	-	-	-
95-89-2	P-	-	-	-	*	-	-	-
3165-93-3	4-	100	-	-	-	-	-	-
107-20-0	-	1000	-	-	*	-	-	-
79-11-8	-	1	100/10000	*	-	*	-	e
532-27-4	2-	-	-	-	?	*	-	-
532-27-4	ALPHA-	-	-	-	-	?	-	-
79-04-9	-	-	-	-	*	-	-	-
-	-	-	-	-	-	-	-	-
106-47-8	P-	1000	-	-	-	-	-	-
108-90-7	-	100	-	-	*	-	-	-
510-15-8	-	10	-	-	-	*	-	-
2698-41-1	O-	-	-	-	*	-	-	-
74-97-5	-	-	-	-	*	-	-	-
124-48-1	-	100	-	-	-	-	-	-
75-45-8	-	-	-	-	-	-	-	-
53469-21-9	-	-	-	-	*	-	?	-
11097-69-1	-	-	-	-	-	-	?	-
75-00-3	-	100	-	-	?	?	*	-
75-00-3	-	-	-	-	?	*	?	-
17-07-3	-	1	500	*	?	-	-	e
7-11-2	-	1	1000	*	-	-	-	e
110-75-8	2-	1000	-	-	-	-	-	-
13010-47-4	1-(2-	-	-	-	*	-	-	-
67-66-3	-	10	10000	*	*	*	*	d1
74-87-3	-	-	-	-	?	*	?	-
542-88-1	-	1	100	*	?	?	?	d,h
107-30-2	-	10	100	*	*	*	*	e,d
91-58-7	BETA-	5000	-	-	-	-	-	-
91-58-7	2-	5000	-	-	-	-	-	-
76-15-3	-	-	-	-	*	-	-	-
3691-35-8	-	1	100/10000	*	-	-	-	e
95-57-8	2-	100	-	-	-	-	-	-
95-57-8	O-	100	-	-	-	-	-	-
-	-	-	-	-	*	-	-	-
-	-	-	-	-	-	*	-	-
7005-72-3	4-	5000	-	-	-	-	-	-
5344-82-1	1-(O-	100	-	-	?	-	-	-
76-06-2	-	-	-	-	*	-	-	-
126-99-8	-	-	-	-	*	-	-	-
542-76-7	3-	1000	-	-	?	-	-	-
2039-87-4	O-	-	-	-	*	-	-	-
7790-94-5	-	1000	-	-	-	-	-	-
1897-45-6	-	-	-	-	-	*	-	-
95-49-8	O-	-	-	-	*	-	-	-
1982-47-4	-	1	500/10000	*	-	-	-	e
2921-88-2	-	1	-	-	*	-	-	-
21923-23-9	-	1	500	*	-	-	-	ah
1066-30-4	-	1000	-	-	-	-	-	-
7738-94-5	-	10	-	-	-	-	-	-
11115-74-5	-	10	-	-	-	-	-	-
-	-	-	-	-	*	-	-	-
13765-19-0	-	10	-	-	?	-	-	-
133-82-0	-	-	-	-	*	-	-	-
925-73-7	-	1	1/10000	*	-	-	-	e
101-53-8	-	1000	-	-	-	-	-	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
1308-31-2	-	CHROMITE ORE PROCESSING (CHROMATE)	-	-	-	-	-	-
7440-47-3	-	CHROMIUM	5000	-	-	-	-	-
7440-47-3	-	CHROMIUM (II) COMPOUNDS	-	-	-	-	-	-
7440-47-3	-	CHROMIUM (III) COMPOUNDS	-	-	-	-	-	-
7440-47-3	-	CHROMIUM (VI) COMPOUNDS, CERTAIN	-	-	-	-	-	-
	-	WATER INSOLUBLE	-	-	-	-	-	-
7440-47-3	-	CHROMIUM (VI) COMPOUNDS, WATER	-	-	-	-	-	-
	-	SOLUBLE	-	-	-	-	-	-
-	-	CHROMIUM COMPOUNDS (SEE	-	-	-	-	-	-
	-	REGULATION FOR DEFINITION)	-	-	-	-	-	-
7440-47-3	-	CHROMIUM INSOLUBLE SALTS	-	-	-	-	-	-
1333-82-0	-	CHROMIUM TRIOXIDE	-	-	-	-	-	-
1333-82-0	-	CHROMIUM TRIOXIDE, SINTERED	-	-	-	-	-	-
7440-47-3	-	CHROMIUM, COMPOUNDS	-	-	-	-	-	-
7440-47-3	-	CHROMIUM, SOLUBLE CHROMIC,	-	-	-	-	-	-
	-	CHROMOUS SALTS	-	-	-	-	-	-
10048-05-5	-	CHROMOUS CHLORIDE	1000	-	-	-	-	-
14977-61-8	-	CHROMYL CHLORIDE	-	-	-	-	-	-
218-01-9	-	CHRYSENE	100	-	-	-	-	-
15663-27-1	-	CISPLATIN	-	-	-	-	-	-
6358-53-8	-	CITRUS RED NO. 2	-	-	-	-	-	-
2971-90-6	-	CLOPIDOL	-	-	-	-	-	-
-	-	COAL DUST (RESPIRABLE FRACTION LESS	-	-	-	-	-	-
	-	THAN 5% SiO ₂)	-	-	-	-	-	-
-	-	COAL DUST (RESPIRABLE FRACTION MORE	-	-	-	-	-	-
	-	THAN 5% SiO ₂)	-	-	-	-	-	-
-	-	COAL SOOT - EXTRACTS	-	-	-	-	-	-
8007-45-2	-	COAL TAR PITCH VOLATILES (BENZENE	-	-	-	-	-	-
	-	SOLUBLE FRACTION)	-	-	-	-	-	-
65996-93-2	-	COAL TAR PITCHES	-	-	-	-	-	-
8007-45-2	-	COAL TARS	-	-	-	-	-	-
7440-48-4	-	COBALT	-	-	-	-	-	-
10210-68-1	-	COBALT CARBONYL	1	10/10000	-	-	-	eh
-	-	COBALT COMPOUNDS (SEE REGULATION	-	-	-	-	-	-
	-	FOR DEFINITION)	-	-	-	-	-	-
16842-03-8	-	COBALT HYDROCARBONYL	-	-	-	-	-	-
7440-48-4	-	COBALT, METAL FUME AND DUST	-	-	-	-	-	-
62207-76-5	-	COBALT, [12,2-(1,2-	1	100/10000	-	-	-	e
	-	ETHANEDIYL)BIS(NITRILOMETHYL...	-	-	-	-	-	-
11114-92-4	-	COBALT-CHROMIUM ALLOY	-	-	-	-	-	-
7789-43-7	-	COBALTOUS BROMIDE	1000	-	-	-	-	-
544-18-3	-	COBALTOUS FORMATE	1000	-	-	-	-	-
14017-41-5	-	COBALTOUS SULFAMATE	1000	-	-	-	-	-
-	-	COKE OVEN EMISSIONS	1	-	-	-	-	-
-	-	COKE OVEN EMISSIONS (POLYCYCLIC	-	-	-	-	-	-
	-	ORGANIC MATTER (POM)	-	-	-	-	-	-
64-86-8	-	COLCHICINE	1	10/10000	-	-	-	eh
7440-50-8	-	COPPER	5000	-	-	-	-	-
12002-03-8	-	COPPER ACETOARSENITE	-	-	-	-	-	-
-	-	COPPER COMPOUNDS (SEE REGULATION	-	-	-	-	-	-
	-	FOR DEFINITION)	-	-	-	-	-	-
544-92-3	-	COPPER CYANIDE	10	-	-	-	-	-
7440-50-8	-	COPPER DUSTS AND MISTS	-	-	-	-	-	-
7440-50-8	-	COPPER FUME	-	-	-	-	-	-
-	-	COTTON DUST	-	-	-	-	-	-
-	-	COTTON DUST (RAW)	-	-	-	-	-	-
56-72-4	-	COUMAPHOS	10	100/10000	-	-	-	-
5836-29-3	-	COUMATETRALYL	1	500/10000	-	-	-	e
8001-58-9	-	CREOSOTE	1	-	-	-	-	-
8021-39-4	-	CREOSOTE, WOOD	-	-	-	-	-	-
120-71-8	P-	CRESIDINE	-	-	-	-	-	-
95-48-7	O-	CRESOL	1000	1000/10000	-	-	-	d
106-44-5	P-	CRESOL	1000	-	-	-	-	-
106-39-4	M-	CRESOL	1000	-	-	-	-	-
1319-77-3	-	CRESOL (MIXED ISOMERS)	-	-	-	-	-	-
1319-77-3	-	CRESOL(S)	1000	-	-	-	-	-
95-48-7	O-	CRESYLIC ACID	1000	-	-	-	-	-
106-44-5	P-	CRESYLIC ACID	1000	-	-	-	-	-
106-39-4	M-	CRESYLIC ACID	1000	-	-	-	-	-
1319-77-3	-	CRESYLIC ACID	1000	-	-	-	-	-
535-89-7	-	CRIMIDINE	1	100/10000	-	-	-	e

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
14484-46-1	- CRISTOBALITE (SILICA)	-	-	-	*	-	-	-
4170-30-3	- CROTONALDEHYDE	100	1000	*	-	-	*	-
123-73-9	- CROTONALDEHYDE (E)-	100	1000	*	-	-	*	-
299-86-5	- CRUFOMATE	-	-	-	*	-	-	-
98-82-8	- CUMENE	5000	-	-	*	*	*	-
80-15-9	- CUMENE HYDROPEROXIDE	-	-	-	-	*	?	-
135-20-6	- CUPFERRON	-	-	-	*	?	-	-
135-20-6	- CUPFERRON (BENZENEAMINE, N- HYDROXY-N-NITROSO, AMMONIUM SALT)	-	-	-	*	*	-	-
142-71-2	- CUPRIC ACETATE	100	-	-	-	-	*	-
12002-03-8	- CUPRIC ACETOARSENITE	1	-	?	-	-	*	-
7447-39-4	- CUPRIC CHLORIDE	10	-	-	-	-	*	-
3251-23-8	- CUPRIC NITRATE	100	-	-	-	-	*	-
5893-66-3	- CUPRIC OXALATE	100	-	-	-	-	*	-
7758-98-7	- CUPRIC SULFATE	10	-	-	-	-	*	-
10380-29-7	- CUPRIC SULFATE AMMONIATED	100	-	-	-	-	*	-
815-82-7	- CUPRIC TARTRATE	100	-	-	-	-	*	-
420-04-2	- CYANAMIDE	-	-	-	*	-	-	-
-	- CYANIDE COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	*	*	-
151-50-8	- CYANIDES	-	-	?	*	-	?	-
57-12-5	- CYANIDES (AS CN)	-	-	-	*	?	?	-
57-12-5	- CYANIDES (SOLUBLE CYANIDE SALTS), NOT ELSEWHERE SPECIFIED	10	-	-	?	?	*	-
143-33-9	- CYANIDES AS CN	-	-	?	*	-	?	-
460-19-5	- CYANOGEN	100	-	-	*	-	*	-
506-68-3	- CYANOGEN BROMIDE	1000	500/10000	*	-	-	*	-
506-77-4	- CYANOGEN CHLORIDE	10	-	-	*	-	*	-
506-78-5	- CYANOGEN IODIDE	1	1000/10000	*	-	-	-	*
936-26-2	- CYANOPHOS	1	1000	*	-	-	-	*
75-14-9	- CYANURIC FLUORIDE	1	100	*	-	-	-	*
4901-08-7	- CYCASIN	-	-	-	*	-	-	-
106-51-4	1,4- CYCLOHEXADIENEDIONE	10	-	-	?	?	*	-
110-82-7	- CYCLOHEXANE	1000	-	-	*	*	*	-
58-89-8	- CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1 ALPHA, 2 ALPHA, 3 BETA, 4 ALPHA, 5 ALPHA, 6 BETA	1	-	?	?	?	*	-
108-93-0	- CYCLOHEXANOL	-	-	-	*	-	-	-
108-94-1	- CYCLOHEXANONE	5000	-	-	*	-	*	-
110-83-8	- CYCLOHEXENE	-	-	-	*	-	-	-
66-81-9	- CYCLOHEXIMIDE	1	100/10000	*	-	-	-	*
108-91-8	- CYCLOHEXYLAMINE	1	10000	*	*	-	-	*
121-82-4	- CYCLONITE	-	-	-	*	-	-	-
542-92-7	- CYCLOPENTADIENE	-	-	-	*	-	-	-
77-47-4	1,3- CYCLOPENTADIENE, 1,2,3,4,5,5- HEXACHLORO-	10	-	?	?	?	*	-
287-92-3	- CYCLOPENTANE	-	-	-	*	-	-	-
50-18-0	- CYCLOPHOSPHAMIDE	10	-	-	*	-	*	-
13121-70-5	- CYHEXATIN	-	-	-	*	-	-	-
94-75-7	2,4- D	-	-	-	*	?	?	-
94-75-7	2,4- D ACID	100	-	-	?	?	*	-
94-11-1	2,4- D ESTERS	100	-	-	-	-	*	-
94-79-1	2,4- D ESTERS	100	-	-	-	-	*	-
94-80-4	2,4- D ESTERS	100	-	-	-	-	*	-
1320-18-9	2,4- D ESTERS	100	-	-	-	-	*	-
1928-38-7	2,4- D ESTERS	100	-	-	-	-	*	-
1928-61-6	2,4- D ESTERS	100	-	-	-	-	*	-
1929-73-3	2,4- D ESTERS	100	-	-	-	-	*	-
2971-38-2	2,4- D ESTERS	100	-	-	-	-	*	-
25168-26-7	2,4- D ESTERS	100	-	-	-	-	*	-
53467-11-1	2,4- D ESTERS	100	-	-	-	-	*	-
94-75-7	2,4- D (ACETIC ACID, (2,4-DICHLOROPHENOXY)-)	-	-	-	*	*	?	-
94-75-7	2,4- D, SALTS AND ESTERS	100	-	-	?	?	*	-
4342-03-4	- DACARBAZINE	-	-	-	*	-	-	-
20830-81-3	- DAUNOMYCIN	10	-	-	*	-	*	-
72-54-8	- DDD	1	-	-	-	-	*	-
72-54-8	4,4- DDD	1	-	-	-	-	*	-
72-55-9	- DDE	1	-	-	-	-	*	-
7-55-9	4,4- DDE	1	-	-	-	-	*	-
7-29-3	- DDT	1	-	-	*	-	*	-

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
50-29-3	4,4' DDT	1	-	-	?	-	•	-
-	DDT AND METABOLITES	-	-	-	?	-	•	-
17702-41-9	-	-	-	-	?	-	-	-
17702-41-9	DECABORANE	-	-	-	?	-	-	-
1163-19-5	DECABORANE(14)	1	500/10000	•	?	-	-	•
8066-48-3	DECABROMODIPHENYL OXIDE	-	-	-	-	-	-	-
919-86-8	DEMETON	1	500	•	•	-	-	•
117-81-7	DEMETON-S-METHYL	1	500	•	•	-	-	•
84-74-2	DI(2-ETHYLHEXYL)PHTHALATE (DEHP)	-	-	-	•	•	?	-
117-84-0	DI-N-BUTYL PHTHALATE	10	-	-	?	?	•	-
621-64-7	DI-N-OCTYL PHTHALATE	5000	-	-	-	?	•	-
117-81-7	DI-N-PROPYLNITROSAMINE	10	-	-	?	?	•	-
123-42-2	DI-SEC, OCTYL PHTHALATE	-	-	-	•	?	?	-
613-35-4	DIACETONE ALCOHOL	-	-	-	•	-	-	-
10311-84-9	DIACETYL BENZIDINE	-	-	-	•	-	-	-
2303-16-4	DIALIFOS	1	100/10000	•	-	-	-	•
2303-16-4	DIALATE	100	-	-	-	?	•	-
2303-16-4	DIALATE (CARBAMOTHOIC ACID, BIS (1-METHYLETHYL), S-(2-3-DICHLORO-2-	100	-	-	-	•	•	-
302-01-2	DIAMINE	1	-	-	?	?	?	•
615-05-4	DIAMINOANISOLE	-	-	-	-	-	•	-
39156-41-7	DIAMINOANISOLE SULFATE	-	-	-	-	•	-	-
101-80-4	DIAMINODIPHENYL ETHER	-	-	-	-	•	-	-
95-80-7	DIAMINOTOLUENE	-	-	-	-	•	•	?
95-80-7	DIAMINOTOLUENE	10	-	-	?	?	•	-
496-72-0	DIAMINOTOLUENE	10	-	-	-	-	•	-
823-40-5	DIAMINOTOLUENE	10	-	-	-	-	•	-
25376-45-8	DIAMINOTOLUENE	10	-	-	-	?	•	-
25376-45-8	DIAMINOTOLUENE (MIXED ISOMERS)	-	-	-	-	•	?	-
5333-41-5	DIAZINON	1	-	-	-	•	-	-
334-88-3	DIAZOMETHANE	-	-	-	-	•	-	-
53-70-3	DIBENZANTHRACENE	1	-	-	-	•	-	-
192-65-4	DIBENZO(A,E)PYRENE	-	-	-	-	•	-	-
191-30-0	DIBENZO(A,L)PYRENE	-	-	-	-	•	-	-
194-59-2	DIBENZO(C,G)CARBAZOLE	-	-	-	-	•	-	-
132-64-9	DIBENZOFURAN	-	-	-	-	•	-	-
189-55-9	DIBENZOPYRENE	10	-	-	?	-	•	-
53-70-3	DIBENZO(A)ANTHRACENE	1	-	-	?	-	•	-
189-64-0	DIBENZO(A,H)PYRENE	-	-	-	-	•	-	-
189-55-9	DIBENZO(A,I)PYRENE	10	-	-	-	•	-	?
226-36-8	DIBENZ(A,H)ACRIDINE	-	-	-	-	•	-	-
53-70-3	DIBENZ(A,H)ANTHRACENE	1	-	-	?	-	•	-
189-55-9	DIBENZ(A,I)PYRENE	10	-	-	?	-	•	-
224-42-0	DIBENZ(A,J)ACRIDINE	-	-	-	-	•	-	-
19287-45-7	DIBORANE	1	100	•	•	-	-	•
96-12-8	DIBROMO-3-CHLOROPROPANE	1	-	-	-	•	?	•
96-12-8	DIBROMO-3-CHLOROPROPANE (DBCP)	-	-	-	-	?	•	?
106-93-4	DIBROMOETHANE (ETHYLENE DIBROMIDE)	-	-	-	-	•	?	-
107-66-4	DIBUTYL PHOSPHATE	-	-	-	-	•	-	-
84-74-2	DIBUTYL PHTHALATE	10	-	-	-	•	•	•
102-81-8	DIBUTYLAMINOETHANOL	-	-	-	-	•	-	-
1918-00-9	DICAMBA	1000	-	-	-	-	-	-
1194-85-6	DICHLOROBENIL	100	-	-	-	-	-	-
117-80-6	DICHLONE	1	-	-	-	-	-	-
594-72-9	DICHLORO-1-NITROETHANE	-	-	-	-	•	-	-
764-41-0	DICHLORO-2-BUTENE	1	-	-	-	-	-	-
28434-88-8	DICHLORO-4,4'-DIAMINODIPHENYL ETHER	-	-	-	-	•	-	-
118-52-5	DICHLORO-5,5-DIMETHYLHYDANTOIN	-	-	-	-	•	-	-
23950-58-5	DICHLORO-N-(1,1-DIMETHYL-2-PROPYNYL)BENZAMIDE	5000	-	-	-	-	•	-
609-20-1	DICHLORO-PARA-PHENYLENEDIAMINE	-	-	-	-	•	-	-
7572-29-4	DICHLOROACETYLENE	-	-	-	-	•	-	-
98-50-1	DICHLOROBENZENE	100	-	-	?	•	•	-
98-50-1	DICHLOROBENZENE	100	-	-	-	?	•	-
106-46-7	DICHLOROBENZENE	100	-	-	-	?	•	-
106-46-7	DICHLOROBENZENE	100	-	-	?	•	•	-
541-73-1	DICHLOROBENZENE	100	-	-	-	•	•	-
541-73-1	DICHLOROBENZENE	100	-	-	-	•	•	-
25321-22-6	DICHLOROBENZENE (MIXED ISOMERS)	-	-	-	-	•	?	-
25321-22-6	DICHLOROBENZENE (MIXED)	100	-	-	-	?	•	-
91-94-1	DICHLOROBENZIDENE	1	-	-	-	?	•	-

Appendix 2(b)

CAS or Other ID. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
-	-	DICHLOROBENZIDINE	-	-	-	?	?	-
91-94-1	3,3-	DICHLOROBENZIDINE	-	-	-	?	?	-
91-94-1	3,3'-	DICHLOROBENZIDINE (AND ITS SALTS)	-	-	-	?	?	-
91-94-1	3,3'-	DICHLOROBENZIDINE (DCB)	-	-	-	?	?	-
75-27-4	-	DICHLOROBROMOMETHANE	5000	-	-	-	-	-
110-57-6	TRANS-1,4-	DICHLOROBUTENE	1	500	-	-	-	-
75-71-8	-	DICHLORODIFLUOROMETHANE	5000	-	-	-	-	-
72-54-8	-	DICHLORODIPHENYL DICHLOROETHANE	1	-	-	-	-	-
50-29-3	-	DICHLORODIPHENYL TRICHLOROETHANE	1	-	-	-	-	-
75-34-3	1,1-	DICHLOROETHANE	1000	-	-	-	-	-
107-06-2	1,2-	DICHLOROETHANE	100	-	-	-	-	-
107-06-2	1,2-	DICHLOROETHANE (ETHYLENE DICHLORIDE)	-	-	-	?	?	-
111-44-4	-	DICHLOROETHYL ETHER	10	10000	-	-	-	d
75-35-4	1,1-	DICHLOROETHYLENE	100	-	-	-	-	-
155-60-5	1,2-TRANS-	DICHLOROETHYLENE	1000	-	-	-	-	-
540-59-0	1,2-	DICHLOROETHYLENE	-	-	-	-	-	-
75-43-4	-	DICHLOROFLUOROMETHANE	-	-	-	-	-	-
75-09-2	-	DICHLOROMETHANE (METHYLENE CHLORIDE)	1000	-	-	?	-	-
111-91-1	-	DICHLOROMETHOXYETHANE	1000	-	-	-	-	-
542-88-1	-	DICHLOROMETHYL ETHER	10	-	-	?	-	-
149-74-6	-	DICHLOROMETHYLPHENYLSILANE	1	1000	-	-	-	-
87-65-0	2,6-	DICHLOROPHENOL	100	-	-	-	-	-
120-83-2	2,4-	DICHLOROPHENOL	100	-	-	-	-	-
94-75-7	2,4-	DICHLOROPHENYOXYACETIC ACID, SALTS AND ESTERS	100	-	-	?	?	-
896-28-6	-	DICHLOROPHENYLARSINE	1	-	-	?	-	-
78-87-5	1,2-	DICHLOROPROPANE	1000	-	-	?	-	-
78-99-9	1,1-	DICHLOROPROPANE	1000	-	-	-	-	-
2-28-9	1,3-	DICHLOROPROPANE	1000	-	-	-	-	-
638-19-7	-	DICHLOROPROPANE	1000	-	-	-	-	-
8003-19-8	-	DICHLOROPROPANE - DICHLOROPROPENE (MIXTURE)	100	-	-	-	-	-
542-75-6	1,3-	DICHLOROPROPENE	100	-	-	?	?	-
542-75-6	-	DICHLOROPROPENE	-	-	-	-	?	-
28952-23-8	-	DICHLOROPROPENE	100	-	-	-	-	-
78-88-6	2,3-	DICHLOROPROPENE (ISOMER)	100	-	-	-	-	-
28952-23-8	-	DICHLOROPROPENE(S)	100	-	-	-	-	-
75-99-0	2,2-	DICHLOROPROPIONIC ACID	5000	-	-	-	-	-
542-75-6	1,3-	DICHLOROPROPYLENE	-	-	-	?	?	-
1320-37-2	-	DICHLOROTETRAFLUOROETHANE	-	-	-	-	-	-
62-73-7	-	DICHLORVOS	10	1000	-	-	-	-
62-73-7	-	DICHLORVOS (PHOSPHORIC ACID, 2,2- DICHLOROETHENYL DIMETHYL ESTER)	10	1000	-	-	-	-
115-32-2	-	DICOFOL (BENZENEMETHANOL, 4-CHLORO- ALPHA-(4-CHLOROPHENYL)-ALPHA- (TRICHLOROMETHYL)-)	10	-	-	-	?	-
141-66-2	-	DICROTOPHOS	1	100	-	-	-	-
77-73-6	-	DICYCLOPENTADIENE	-	-	-	-	-	-
102-54-5	-	DICYCLOPENTADIENYL IRON	-	-	-	-	-	-
60-57-1	-	DIELDRIN	1	-	-	-	-	-
84-17-3	-	DIENOESTROL	-	-	-	-	-	-
1464-53-5	-	DIEPOXYBUTANE	1	500	-	-	-	-
1464-53-5	1,2,3,4-	DIEPOXYBUTANE	10	-	-	?	?	-
111-42-2	-	DIETHANOLAMINE	-	-	-	-	-	-
814-49-3	-	DIETHYL CHLOROPHOSPHATE	1	500	-	-	-	eh
98-22-0	-	DIETHYL KETONE	-	-	-	-	-	-
297-97-2	O,O-	DIETHYL O-PYRAZINYL PHOSPHOROTHIOATE	100	-	-	?	-	-
84-66-2	-	DIETHYL PHTHALATE	1000	-	-	-	-	-
3288-58-2	O,O-	DIETHYL S-METHYL DITHIOPHOSPHATE	5000	-	-	-	-	-
298-04-4	O,O-	DIETHYL S-(2-(ETHYLTHIO)ETHYL) PHOSPHORODITHIOATE	1	-	-	?	?	-
64-67-5	-	DIETHYL SULPHATE	-	-	-	-	-	-
311-45-5	-	DIETHYL-P-NITROPHENYL PHOSPHATE	100	-	-	-	-	-
109-89-7	-	DIETHYLAMINE	100	-	-	-	-	-
100-37-8	2-	DIETHYLAMINOETHANOL	-	-	-	-	-	-
92-42-2	-	DIETHYLARSINE	1	-	-	-	-	-
142-54-2	-	DIETHYLCARBAMAZINE CITRATE	1	100/10000	-	-	-	-
223-91-1	1,4-	DIETHYLENE DIOXIDE	100	-	-	?	?	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPO	E H S	O S H	T O X I C	C E R C L A	NOTES
111-40-0	-	-	-	-	*	-	-	-
1615-80-1	1,2-	-	-	-	*	-	?	-
1615-80-1	N,N'-	10	-	-	?	-	*	-
58-53-1	-	1	-	-	*	-	*	-
75-61-6	-	-	-	-	*	-	-	-
71-63-6	-	1	100/10000	*	-	-	-	ca
2238-07-5	-	1	1000	*	?	-	-	e
2238-07-5	-	-	-	?	*	-	-	-
101-90-6	-	-	-	-	*	-	-	-
101-90-6	-	-	-	-	*	-	-	-
20830-75-5	-	1	10/10000	*	-	-	-	eh
123-33-1	1,2-	5000	-	-	-	-	*	-
94-58-6	-	10	-	-	*	-	*	-
123-31-9	-	-	-	?	*	?	-	-
108-83-8	-	-	-	-	*	-	-	-
55-91-4	-	100	-	?	-	-	*	-
108-18-9	-	-	-	-	*	-	-	-
115-26-4	-	1	500	*	-	-	-	e
309-00-2	1,4,5,8-	1	500/10000	*	*	*	*	d
465-73-6	1,4,5,8-	1	-	?	-	-	*	-
60-57-1	2,7,3,6-	1	-	-	?	-	*	-
72-20-8	2,7,3,6-	1	-	?	?	-	*	-
60-51-5	-	10	500/10000	*	-	-	*	-
119-90-4	3,3'-	100	-	-	*	*	*	-
91-93-0	3,3'-	-	-	-	*	-	-	-
39196-18-4	3,3-	100	-	?	-	-	*	-
127-19-5	-	-	-	-	*	-	-	-
298-00-0	O,O-	100	-	?	?	-	*	-
2524-03-0	-	1	500	*	-	-	-	e
131-11-3	-	5000	-	-	*	*	*	-
77-78-1	-	100	500	*	*	*	*	d
99-98-9	-	1	10/10000	*	-	-	-	e
124-40-3	-	1000	-	-	*	-	*	-
55738-54-0	TRANS-2(-	-	-	*	-	-	-
60-11-7	4-	-	-	-	?	*	?	-
60-11-7	-	10	-	-	*	?	*	-
60-11-7	PARA-	-	-	-	*	?	?	-
121-69-7	N,N-	-	-	-	*	*	-	-
119-93-7	-	10	-	-	?	?	*	-
119-93-7	3,3-	-	-	-	?	*	?	-
60-15-9	ALPHA-	10	-	-	-	?	*	-
57-97-6	7,12-	1	-	-	-	-	*	-
79-44-7	-	1	-	-	*	*	*	-
75-78-5	-	1	500	*	-	-	-	eh
68-12-2	-	-	-	-	*	-	-	-
57-14-7	-	1	1000	*	?	?	?	d
57-14-7	1,1-	10	-	?	*	*	*	-
540-73-8	1,2-	1	-	-	*	-	*	-
62-75-9	-	1	-	?	?	?	*	-
122-09-8	ALPHA-	5000	-	-	-	-	*	-
105-87-9	ALPHA-	100	-	-	-	*	*	-
644-64-4	2,4-	1	500/10000	*	-	-	-	e
148-01-6	-	-	-	-	*	-	-	-
534-52-1	-	-	-	?	*	?	?	-
534-52-1	4,6-	-	-	?	?	*	?	-
534-52-1	4,6-	10	-	?	?	?	*	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
131-89-5	4,6-DINITRO-O-CYCLOHEXYLPHENOL	100	-	-	-	-	-	-
99-85-0	M-DINITROBENZENE	100	-	-	-	-	-	-
100-25-4	P-DINITROBENZENE	100	-	-	-	-	-	-
828-29-0	O-DINITROBENZENE	100	-	-	-	-	-	-
25154-54-5	DINITROBENZENE (MIXED)	100	-	-	-	-	-	-
534-52-1	DINITROCRESOL	10	10/10000	-	?	?	?	-
51-28-5	2,4-DINITROPHENOL	10	-	-	-	-	-	-
329-71-5	2,5-DINITROPHENOL	10	-	-	-	-	-	-
573-56-8	2,6-DINITROPHENOL	10	-	-	-	-	-	-
25550-58-7	DINITROPHENOL	10	-	-	-	-	-	-
121-14-2	DINITROTOLUENE	10	-	-	-	-	-	-
906-20-2	DINITROTOLUENE	100	-	-	-	-	-	-
610-39-9	DINITROTOLUENE	10	-	-	-	-	-	-
25321-14-6	DINITROTOLUENE	10	-	-	-	-	-	-
88-85-7	DINOSEB	1000	100/10000	-	-	-	-	-
1420-07-1	DINOTERB	1	500/10000	-	-	-	-	-
117-84-0	N-DIOCTYLPHTHALATE	-	-	-	-	-	?	-
123-91-1	1,4-DIOXANE	100	-	-	-	-	-	-
123-91-1	DIOXANE	-	-	-	-	-	?	-
123-91-1	DIOXANE, TECHNICAL GRADE	-	-	-	-	-	?	-
78-34-2	DIOXATHION	1	500	-	-	-	-	-
82-66-6	DIPHACINONE	1	10/10000	-	-	-	-	-
122-66-7	1,2-DIPHENYL HYDRAZINE (HYDRAZOBENZENE)	-	-	-	?	-	?	-
122-39-4	DIPHENYLAMINE	-	-	-	-	-	-	-
-	DIPHENYLHYDRAZINE	-	-	-	-	-	-	-
122-66-7	1,2-DIPHENYLHYDRAZINE	10	-	-	-	?	-	-
152-16-9	DIPHOSPHORAMIDE, OCTAMETHYL-	100	100	-	-	-	-	-
123-19-3	DIPROPYL KETONE	-	-	-	-	-	-	-
142-84-7	DIPROPYLAMINE	5000	-	-	-	-	-	-
34590-94-8	DIPROPYLENE GLYCOL METHYL ETHER	-	-	-	-	-	-	-
5-00-7	DIQUAT	1000	-	-	-	-	-	-
164-72-9	DIQUAT	1000	-	-	-	-	-	-
1937-37-7	DIRECT BLACK 38, TECHNICAL GRADE	-	-	-	-	?	-	-
2602-46-2	DIRECT BLUE 6, TECHNICAL GRADE	-	-	-	-	?	-	-
16071-86-6	DIRECT BROWN 95, TECHNICAL GRADE	-	-	-	-	?	-	-
97-77-8	DISULFIRAM	-	-	-	-	-	-	-
298-04-4	DISULFOTON	1	500	-	-	-	-	-
128-37-0	2,6-DITERT. BUTYL-P-CRESOL	-	-	-	-	-	-	-
514-73-8	DITHIAZANINE IODIDE	1	500/10000	-	-	-	-	-
541-53-7	2,4-DITHIOBIURET	100	-	?	-	-	-	-
541-53-7	DITHIOBIURET	100	100/10000	-	-	-	?	-
3689-24-5	DITHIOPYROPHOSPHORIC ACID, TETRAETHYL ESTER	100	-	?	?	-	-	-
330-54-1	DIURON	100	-	-	-	-	-	-
106-57-6	DIVINYLBENZENE (BENZENE, 1,3-DIETHENYL-)	-	-	-	-	-	-	-
27176-87-0	DODECYLBENZENESULFONIC ACID	1000	-	-	-	-	-	-
112-62-9	EMERY	-	-	-	-	-	-	-
316-42-7	EMETINE, DIHYDROCHLORIDE	1	1/10000	-	-	-	-	eh
115-29-7	ENDOSULFAN	1	10/10000	-	-	-	-	-
959-98-8	ALPHA-ENDOSULFAN	1	-	-	-	-	-	-
33213-65-9	BETA-ENDOSULFAN	1	-	-	-	-	-	-
-	ENDOSULFAN AND METABOLITES	-	-	-	-	-	-	-
1031-07-8	ENDOSULFAN SULFATE	1	-	-	-	-	-	-
145-73-3	ENDOTHALL	1000	-	-	-	-	-	-
2778-04-3	ENDOTHION	1	500/10000	-	-	-	-	-
72-20-8	ENDRIN	1	500/10000	-	-	-	-	-
7421-93-4	ENDRIN ALDEHYDE	1	-	-	-	-	-	-
-	ENDRIN AND METABOLITES	-	-	-	-	-	-	-
13838-16-9	ENFLURANE	-	-	-	-	-	-	-
106-89-8	EPICHLOROHYDRIN	100	1000	-	-	-	-	dj
51-43-4	EPINEPHRINE	1000	-	-	-	-	-	-
2104-64-5	EPN	1	100/10000	-	-	-	-	-
50-14-6	ERGOCALCIFEROL	1	1000/10000	-	-	-	-	cs
379-79-3	ERGOTAMINE TARTRATE	1	500/10000	-	-	-	-	-
50-28-2	ESTRADIOL	-	-	-	-	-	-	-
78-07-0	ETHANAL	1000	-	-	?	?	-	-
122-09-8	ETHANAMINE, 1,1-DIMETHYL-2-PHENYL	5000	-	-	-	-	-	-
5-18-5	ETHANAMINE, N-ETHYL-N-NITROSO	1	-	-	?	?	-	-
4-84-0	ETHANE	-	-	-	-	-	-	-
111-44-4	ETHANE, 1,1'-OXYBIS(2-CHLORO-	10	-	?	?	?	-	-
60-29-7	ETHANE, 1,1'-OXYBIS-	100	-	-	?	-	-	-

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
111-91-1	- ETHANE, 1,1'-(METHYLENEBIS(OXY))BIS(2-CHLORO-	1000	-	-	-	-	*	-
630-20-6	- ETHANE, 1,1,1,2-TETRACHLORO-	100	-	-	-	-	*	-
72-43-5	- ETHANE, 1,1,1-TRICHLORO-2,2-BIS(P-METHOXYPHENYL)-	1	-	-	?	?	*	-
79-34-5	- ETHANE, 1,1,2,2-TETRACHLORO-	100	-	-	*	?	*	-
79-00-5	- ETHANE, 1,1,2-TRICHLORO-	100	-	-	?	?	*	-
75-34-3	- ETHANE, 1,1-DICHLORO-	1000	-	-	?	-	*	-
106-93-4	- ETHANE, 1,2-DIBROMO-	1	-	-	?	?	*	-
107-06-2	- ETHANE, 1,2-DICHLORO-	100	-	-	?	?	*	-
67-72-1	- ETHANE, HEXACHLORO-	100	-	-	?	?	*	-
76-01-7	- ETHANE, PENTACHLORO-	10	-	-	-	-	*	-
111-54-6	1,2- ETHANEDIYLBISCARBAMODITHIOIC ACID	5000	-	-	-	-	*	-
75-05-8	- ETHANENITRILE	5000	-	-	?	?	*	-
1622-32-6	- ETHANESULFONYL CHLORIDE, 2-CHLORO-	1	500	-	-	-	-	*
62-55-5	- ETHANETHIOAMIDE	10	-	-	?	?	*	-
10140-87-1	- ETHANOL, 1,2-DICHLORO-, ACETATE	1	1000	-	-	-	-	*
1116-54-7	- ETHANOL, 2,2'-(NITROSODIMINO)BIS	1	-	-	?	-	*	-
141-43-5	- ETHANOLAMINE	-	-	-	*	-	-	-
98-86-2	- ETHANONE, 1-PHENYL-	5000	-	-	-	-	*	-
75-36-5	- ETHANOYL CHLORIDE	5000	-	-	-	-	*	-
4549-40-0	- ETHENAMINE, N-METHYL-N-NITROSO-	10	-	-	?	?	*	-
127-18-4	- ETHENE, 1,1,2,2-TETRACHLORO-	100	-	-	?	?	*	-
75-35-4	- ETHENE, 1,1-DICHLORO-	100	-	-	?	?	*	-
110-75-8	- ETHENE, 2-CHLOROETHOXY-	1000	-	-	-	-	*	-
75-01-4	- ETHENE, CHLORO-	1	-	-	?	?	*	-
156-60-5	- ETHENE, TRANS-1,2-DICHLORO-	1000	-	-	-	-	*	-
79-01-6	- ETHENE, TRICHLORO	100	-	-	?	?	*	-
4549-40-0	- ETHENYLAMINE, N-METHYL-N-NITROSO-	-	-	-	*	?	?	-
57-83-6	- ETHINYLOESTRADIOL	-	-	-	*	-	-	-
563-12-2	- ETHION	10	1000	-	*	-	*	-
13194-48-4	- ETHOPROPHOS	1	1000	-	*	-	-	*
110-80-5	2- ETHOXYETHANOL	1000	-	-	*	*	*	-
111-15-9	2- ETHOXYETHYL ACETATE	-	-	-	*	-	-	-
141-78-6	- ETHYL ACETATE	5000	-	-	*	-	*	-
140-88-5	- ETHYL ACRYLATE	1000	-	-	*	*	*	-
64-17-5	- ETHYL ALCOHOL	-	-	-	*	-	-	-
541-85-5	- ETHYL AMYL KETONE	-	-	-	*	-	-	-
100-41-4	- ETHYL BENZENE	-	-	-	*	*	?	-
74-96-4	- ETHYL BROMIDE	-	-	-	*	-	-	-
106-35-4	- ETHYL BUTYL KETONE	-	-	-	*	-	-	-
51-79-6	- ETHYL CARBAMATE	-	-	-	*	?	?	-
51-79-6	- ETHYL CARBAMATE (URETHANE)	100	-	-	?	?	*	-
75-00-3	- ETHYL CHLORIDE	-	-	-	*	?	?	-
541-41-3	- ETHYL CHLOROFORMATE	-	-	-	-	*	-	-
107-12-0	- ETHYL CYANIDE	10	-	-	?	-	*	-
60-29-7	- ETHYL ETHER	100	-	-	*	-	*	-
109-94-4	- ETHYL FORMATE	-	-	-	*	-	-	-
75-08-1	- ETHYL MERCAPTAN	-	-	-	*	-	-	-
97-63-2	- ETHYL METHACRYLATE	1000	-	-	*	-	*	-
62-50-0	- ETHYL METHANESULFONATE	1	-	-	*	-	*	-
78-10-4	- ETHYL SILICATE	-	-	-	*	-	-	-
75-04-7	- ETHYLAMINE	-	-	-	*	-	?	-
100-41-4	- ETHYLBENZENE	1000	-	-	*	?	*	-
538-07-8	- ETHYLBIS(2-CHLOROETHYL)AMINE	1	500	-	*	-	-	eh
74-85-1	- ETHYLENE	-	-	-	*	*	*	-
107-07-3	- ETHYLENE CHLOROHYDRIN	-	-	-	?	*	-	-
106-93-4	- ETHYLENE DIBROMIDE	1	-	-	*	?	*	-
107-06-2	- ETHYLENE DICHLORIDE	100	-	-	*	?	*	-
371-62-0	- ETHYLENE FLUOROHYDRIN	1	10	-	*	-	-	ceh
107-21-1	- ETHYLENE GLYCOL	-	-	-	*	*	-	-
628-96-6	- ETHYLENE GLYCOL DINITRATE	-	-	-	*	-	-	-
-	- ETHYLENE GLYCOL DINITRATE AND NITROGLYCERIN	-	-	-	*	-	-	-
110-80-5	- ETHYLENE GLYCOL MONOETHYL ETHER	1000	-	-	?	?	*	-
110-49-6	- ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	-	-	-	*	-	-	-
107-21-1	- ETHYLENE GLYCOL, VAPOR	-	-	-	*	?	-	-
75-21-8	- ETHYLENE OXIDE	10	1000	-	*	*	*	dj
96-45-7	- ETHYLENE THIOUREA	-	-	-	*	*	?	-
111-54-6	- ETHYLENEBIS(DITHIOCARBAMIC ACID)	5000	-	-	-	-	*	-

Appendix 2(b)

EXHIBIT A							T		C			
JUNE 1990 REV. NO. 2							O		S			
CAS or Other							E		H			
LD. No.			CHEMICAL NAME		RQ		TPQ		S		H	
107-15-3	-	ETHYLENEDIAMINE	5000	10000	*	*	-	*	-	-	-	-
60-00-4	-	ETHYLENEDIAMINE TETRAACETIC ACID (EDTA)	5000	-	-	-	-	-	-	-	-	-
151-56-4	-	ETHYLENEIMINE	1	500	*	*	?	?	*	?	d	-
151-56-4	-	ETHYLENEIMINE (AZIRIDINE)	-	-	?	?	*	?	*	?	-	-
98-45-7	-	ETHYLENETHIOUREA	10	-	-	?	?	?	*	-	-	-
151-56-4	-	ETHYLENIMINE	1	-	?	?	?	*	-	-	-	-
75-34-3	-	ETHYLIDENE DICHLORIDE	1000	-	-	?	*	-	-	-	-	-
16219-75-3	-	ETHYLIDENENORBORNENE	-	-	-	*	-	-	-	-	-	-
100-74-3	N-	ETHYLMORPHOLINE	-	-	-	-	-	-	-	-	-	-
542-90-5	-	ETHYLTHIOCYANATE	1	10000	*	-	-	-	-	-	e	-
52-85-7	-	FAMPHUR	1000	-	-	-	-	-	-	-	-	-
22224-92-6	-	FENAMIPHOS	1	10/10000	*	*	-	-	-	-	e	-
122-14-5	-	FENITROTHION	1	500	*	-	-	-	-	-	e	-
115-90-2	-	FENSULFOTHION	1	500	*	*	-	-	-	-	eh	-
55-38-9	-	FENTHION	-	-	-	*	-	-	-	-	-	-
14484-64-1	-	FERBAM	-	-	-	*	-	-	-	-	-	-
1185-57-5	-	FERRIC AMMONIUM CITRATE	1000	-	-	-	-	-	-	-	-	-
2944-67-4	-	FERRIC AMMONIUM OXALATE	1000	-	-	-	-	-	-	-	-	-
55488-87-4	-	FERRIC AMMONIUM OXALATE	1000	-	-	-	-	-	-	-	-	-
7705-08-0	-	FERRIC CHLORIDE	1000	-	-	-	-	-	-	-	-	-
9004-66-4	-	FERRIC DEXTRAN	5000	-	-	*	-	-	-	-	-	-
7783-50-8	-	FERRIC FLUORIDE	100	-	-	-	-	-	-	-	-	-
10421-48-4	-	FERRIC NITRATE	1000	-	-	-	-	-	-	-	-	-
10028-22-5	-	FERRIC SULFATE	1000	-	-	-	-	-	-	-	-	-
10045-89-3	-	FERROUS AMMONIUM SULFATE	1000	-	-	-	-	-	-	-	-	-
7758-94-3	-	FERROUS CHLORIDE	100	-	-	-	-	-	-	-	-	-
7720-78-7	-	FERROUS SULFATE	1000	-	-	-	-	-	-	-	-	-
7782-63-0	-	FERROUS SULFATE	1000	-	-	-	-	-	-	-	-	-
2804-58-9	-	FERROVANADIUM	-	-	-	*	-	-	-	-	-	-
804-58-9	-	FERROVANADIUM DUST	-	-	-	*	-	-	-	-	-	-
101-50-2	-	FLUENETIL	1	100/10000	*	-	-	-	-	-	e	-
2164-17-2	-	FLUOMETURON [UREA, N,N-DIMETHYL-N-(3-(TRIFLUOROMETHYL)PHENYL)-]	-	-	-	-	-	-	-	-	-	-
206-44-0	-	FLUORANTHENE	100	-	-	-	-	-	-	*	-	-
86-73-7	-	FLUORENE	5000	-	-	-	-	-	-	*	-	-
16984-48-8	-	FLUORIDE(S)	-	-	-	*	-	-	-	-	z	-
16984-48-8	-	FLUORIDE, AS DUST	-	-	-	*	-	-	-	-	-	-
7782-41-4	-	FLUORINE	10	500	*	*	-	-	-	*	k	-
640-19-7	-	FLUOROACETAMIDE	100	100/10000	*	-	-	-	-	*	j	-
144-49-0	-	FLUOROACETIC ACID	1	10/10000	*	-	-	-	-	-	e	-
62-74-8	-	FLUOROACETIC ACID, SODIUM SALT	10	-	?	?	-	-	-	*	-	-
359-06-8	-	FLUOROACETYL CHLORIDE	1	10	*	-	-	-	-	-	ce	-
51-21-8	-	FLUOROURACIL	1	500/10000	*	-	-	-	-	-	e	-
944-22-9	-	FONOFOS	1	500	*	*	-	-	-	-	e	-
50-00-0	-	FORMALDEHYDE	100	500	*	*	*	*	*	*	dj	-
50-00-0	-	FORMALDEHYDE (GAS)	-	-	?	*	?	?	?	?	-	-
107-16-4	-	FORMALDEHYDE CYANOHYDRIN	1	1000	*	-	-	-	-	-	eh	-
50-00-0	-	FORMALDEHYDE, ROSIN CORE SOLDER	-	-	?	*	?	?	?	?	-	-
75-12-7	-	PYROLYSIS PRODUCTS AS FORMAMIDE	-	-	-	*	-	-	-	-	-	-
23422-53-9	-	FORMETANATE HYDROCHLORIDE	1	500/10000	*	-	-	-	-	-	eh	-
64-18-6	-	FORMIC ACID	5000	-	-	*	-	-	-	-	-	-
2540-82-1	-	FORMOTHION	1	100	*	-	-	-	-	-	e	-
17702-57-7	-	FORMPARANATE	1	100/10000	*	-	-	-	-	-	e	-
3570-75-0	2-(2-	FORMYLHYDRAZINO)-4-(5 NITRO-2-FURYL)THIAZOLE	-	-	-	-	*	-	-	-	-	-
21548-32-3	-	FOSHIETAN	1	500	*	-	-	-	-	-	e	-
76-13-1	-	FREON 113 (ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-)	-	-	-	*	*	*	-	-	-	-
3878-19-1	-	FUBERIDAZOLE	1	100/10000	*	-	-	-	-	-	e	-
628-86-4	-	FULMINIC ACID, MERCURY(II) SALT	10	-	-	-	-	-	-	-	-	-
110-17-8	-	FUMARIC ACID	5000	-	-	-	-	-	-	-	-	-
110-00-9	-	FURAN	100	500	*	-	-	-	-	-	-	-
109-99-9	-	FURAN, TETRAHYDRO-	1000	-	-	?	-	-	-	-	-	-
98-01-1	2-	FURANCARBOXALDEHYDE	5000	-	-	?	-	-	-	-	-	-
108-31-6	2,5-	FURANDIONE	5000	-	-	?	?	*	-	-	-	-
98-01-1	-	FURFURAL	5000	-	-	*	-	-	-	-	-	-
100-0	-	FURFURAL ALCOHOL	-	-	-	*	-	-	-	-	-	-
0-00-9	-	FURFURAN	100	-	?	-	-	-	-	-	-	-
13450-90-3	-	GALLIUM TRICHLORIDE	1	500/10000	*	-	-	-	-	-	e	-
8006-61-9	-	GASOLINE	-	-	-	*	-	-	-	-	-	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
7782-85-2	- GERMANIUM TETRAHYDRIDE	-	-	-	•	-	-	-
14808-60-7	- GLASS, FIBROUS DUST	-	-	-	•	-	-	-
18883-66-4	D- GLUCOSE, 2-DEOXY-2- ((METHYLNITROSOAMINO) CARBONYLAMINO)-	1	-	-	?	-	•	-
111-30-8	- GLUTARALDEHYDE	-	-	-	•	-	-	-
56-81-5	- GLYCERIN MIST	-	-	-	•	-	-	-
556-52-5	- GLYCIDOL	-	-	-	•	-	-	-
765-34-4	- GLYCIDYLALDEHYDE	10	-	-	•	-	•	-
-	- GLYCOL ETHERS (SEE REGULATION FOR DEFINITION)	-	-	-	-	•	-	-
-	- GRAIN DUST (OAT, WHEAT, BARLEY)	-	-	-	•	-	-	-
7782-42-5	- GRAPHITE (NATURAL)	-	-	-	•	-	-	-
7782-42-5	- GRAPHITE (SYNTHETIC)	-	-	-	•	-	-	-
70-25-7	- GUANIDINE, N-NITROSO-N-METHYL-N'- NITRO-	10	-	-	?	-	•	-
86-50-0	- GUTHION	1	-	-	?	-	•	-
10101-41-4	- GYPSUM	-	-	-	•	-	-	-
16568-02-8	- GYROMITRIN	-	-	-	•	-	-	-
7440-58-6	- HAFNIUM	-	-	-	•	-	-	-
-	- HALOETHERS	-	-	-	-	-	•	-
-	- HALOMETHANES	-	-	-	-	-	•	-
151-67-7	- HALOTHANE	-	-	-	•	-	-	-
7440-59-7	- HELIUM	-	-	-	•	-	-	-
1317-60-8	- HEMATITE UNDERGROUND MINING	-	-	-	•	-	-	-
1317-60-8	- HEMATITE UNDERGROUND MINING, WITH EXPOSURE TO RADON	-	-	-	•	-	-	-
76-44-8	- HEPTACHLOR	1	-	-	•	?	•	-
-	- HEPTACHLOR AND METABOLITES	-	-	-	-	-	•	-
1024-57-3	- HEPTACHLOR EPOXIDE	1	-	-	-	-	•	-
76-44-8	- HEPTACHLOR (1,4,5,6,7,8,8-HEPTACHLORO- 3A,4,7,7A-TETRAHYDRO-4,7-METHANO	1	-	-	•	•	•	-
142-82-5	- HEPTANE (N-HEPTANE)	-	-	-	•	-	-	-
87-68-3	- HEXACHLORO-1,3-BUTADIENE	-	-	-	?	•	?	-
118-74-1	- HEXACHLOROBENZENE	10	-	-	•	•	•	-
87-68-3	- HEXACHLOROBUTADIENE	1	-	-	•	?	•	-
608-73-1	- HEXACHLOROCYCLOHEXANE (ALL ISOMERS)	-	-	-	?	-	•	-
58-89-9	- HEXACHLOROCYCLOHEXANE (GAMMA ISOMER)	1	-	-	?	?	?	-
77-47-4	- HEXACHLOROCYCLOPENTADIENE	10	100	-	•	•	•	d,h
67-72-1	- HEXACHLOROETHANE	100	-	-	•	•	•	-
465-73-6	- HEXACHLOROHEXAHYDRO-ENDO,ENDO- DIMETHANONAPHTHALENE	1	-	-	?	-	•	-
1335-87-1	- HEXACHLORONAPHTHALENE	-	-	-	•	•	-	-
70-30-4	- HEXACHLOROPHENE	100	-	-	-	-	•	-
1888-71-7	- HEXACHLOROPROPENE	1000	-	-	-	-	•	-
757-58-4	- HEXAETHYL TETRAPHOSPHATE	100	-	-	-	-	•	-
684-16-2	- HEXAFLUORACETONE	-	-	-	•	-	-	-
822-06-0	- HEXAMETHYLENEDIAMINE	-	-	-	•	-	-	-
4835-11-4	- DIISOCYANATE HEXAMETHYLENEDIAMINE, N,N'- DIBUTYL-	1	500	-	•	-	-	e
680-31-9	- HEXAMETHYLPHOSPHORAMIDE	-	-	-	•	•	-	-
-	- HEXANE (ISOMERS OTHER THAN N- HEXANE)	-	-	-	•	-	-	-
110-54-3	- HEXANE (N-HEXANE)	-	-	-	•	-	-	-
108-84-9	SEC- HEXYL ACETATE	-	-	-	•	-	-	-
107-41-5	- HEXYLENE GLYCOL	-	-	-	•	-	-	-
302-01-2	- HYDRAZINE	1	1000	-	•	•	•	d
10034-93-2	- HYDRAZINE SULFATE	-	-	-	?	•	-	-
57-14-7	- HYDRAZINE, 1,1-DIMETHYL	10	-	-	?	?	?	-
1615-80-1	- HYDRAZINE, 1,2-DIETHYL	10	-	-	-	?	•	-
640-73-8	- HYDRAZINE, 1,2-DIMETHYL	1	-	-	-	?	•	-
122-66-7	- HYDRAZINE, 1,2-DIPHENYL	10	-	-	-	?	?	-
60-34-4	- HYDRAZINE, METHYL	10	-	-	?	?	?	-
10034-93-2	- HYDRAZINE, SULFATE (1:1)	-	-	-	-	•	?	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
79-19-8	-	HYDRAZINECARBOTHIOAMIDE	100	-	?	-	-	-
7647-01-0	-	HYDROCHLORIC ACID	5000	-	?	?	-	-
74-90-8	-	HYDROCYANIC ACID	10	100	-	?	-	-
7664-39-3	-	HYDROFLUORIC ACID	100	-	?	?	-	-
1333-74-0	-	HYDROGEN	-	-	-	-	-	-
10035-10-6	-	HYDROGEN BROMIDE	-	-	-	-	-	-
7647-01-0	-	HYDROGEN CHLORIDE	5000	500	-	?	?	alm
74-90-8	-	HYDROGEN CYANIDE	10	-	?	-	-	-
7664-39-3	-	HYDROGEN FLUORIDE	100	100	-	-	-	-
7722-84-1	-	HYDROGEN PEROXIDE	1	1000	-	-	-	el
7803-51-2	-	HYDROGEN PHOSPHIDE	100	-	?	-	-	-
7783-07-5	-	HYDROGEN SELENIDE	1	10	-	-	-	-
7783-08-4	-	HYDROGEN SULFIDE	100	500	-	?	-	l
7783-08-4	-	HYDROGEN SULFIDE/H2S/	-	-	?	-	?	-
80-15-9	-	HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL-	10	-	-	?	-	-
123-31-9	-	HYDROQUINONE	1	500/10000	-	-	-	l
7783-08-4	-	HYDROSULFURIC ACID	100	-	?	?	-	-
75-60-5	-	HYDROXYDIMETHYLARSINE OXIDE	1	-	-	-	-	-
999-61-1	-	HYDROXYPROPYL ACRYLATE	-	-	-	-	-	-
96-45-7	2-	IMIDAZOLIDINETHIONE	10	-	-	?	-	-
96-13-6	-	INDENE	-	-	-	-	-	-
193-39-5	-	INDENO(1,2,3-CD)PYRENE	100	-	-	-	-	-
7440-74-6	-	INDIUM AND COMPOUNDS	-	-	-	-	-	-
-	-	INDUSTRIES - BOOT AND SHOE MANUFACTURE & REPAIR (CERTAIN OCCUPATIONS)	-	-	-	-	-	-
-	-	INDUSTRIES - FURNITURE MANUFACTURE	-	-	-	-	-	-
-	-	INDUSTRIES - RUBBER (CERTAIN OCCUPATIONS)	-	-	-	-	-	-
7553-56-2	-	IODINE	-	-	-	-	-	-
147-8	-	IODOFORM	-	-	-	-	-	-
104-66-4	-	IRON DEXTRAN	5000	-	-	-	-	-
1309-37-1	-	IRON OXIDE FUME (FE2O3)	-	-	-	-	-	-
-	-	IRON SALTS, SOLUBLE	-	-	-	-	-	-
13463-40-6	-	IRON, PENTACARBONYL-	1	100	-	-	-	e
123-92-2	-	ISOAMYL ACETATE	-	-	-	-	?	-
123-51-3	-	ISOAMYL ALCOHOL	-	-	-	-	-	-
297-78-9	-	ISOBENZAN	1	100/10000	-	-	-	e
632-79-1	1,3-	ISOBENZOFURANDIONE, 4,5,6,7-TETRABROMO-	-	-	-	-	-	-
110-19-0	-	ISOBUTYL ACETATE	-	-	-	-	?	-
78-83-1	-	ISOBUTYL ALCOHOL	5000	-	-	-	-	-
78-84-2	-	ISOBUTYRALDEHYDE	-	-	-	-	-	-
78-82-0	-	ISOBUTYRONITRILE	1	1000	-	-	-	eh
102-36-3	-	ISOCYANIC ACID, 3,4-DICHLOROPHENYL ESTER	1	500/10000	-	-	-	e
624-83-9	-	ISOCYANIC ACID, METHYL ESTER	1	-	?	?	-	-
465-73-6	-	ISODRIN	1	100/10000	-	-	-	-
55-91-4	-	ISOFLUORPHATE	100	100	-	-	?	e
26952-21-6	-	ISOCTYL ALCOHOL	-	-	-	-	-	-
78-59-1	-	ISOPHORONE	5000	-	-	-	-	-
4098-71-9	-	ISOPHORONE DIISOCYANATE	1	100	-	-	-	be
78-79-5	-	ISOPRENE	100	-	-	-	-	z
42504-46-1	-	ISOPROPANOLAMINE	1000	-	-	-	-	-
109-59-1	-	DODECYLBENZENESULFONATE	-	-	-	-	-	-
108-21-4	-	ISOPROPOXYETHANOL	-	-	-	-	-	-
67-63-0	-	ISOPROPYL ACETATE	-	-	-	-	-	-
67-63-0	-	ISOPROPYL ALCOHOL	-	-	-	?	-	-
67-63-0	-	ISOPROPYL ALCOHOL MANUFACTURE (STRONG ACID PROCESS)	-	-	-	?	-	-
67-63-0	-	ISOPROPYL ALCOHOL MANUFACTURE (STRONG ACID PROCESS) (SEE REGULATION)	-	-	-	-	-	-
108-23-6	-	ISOPROPYL CHLOROFORMATE	1	1000	-	-	-	e
108-20-3	-	ISOPROPYL ETHER	-	-	-	-	-	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E N T R A L	NOTES
4016-14-2	-	ISOPROPYL GLYCIDYL ETHER (IGE)	-	-	-	-	-	-
75-31-0	-	ISOPROPYLAMINE	-	-	-	-	-	-
768-52-5	N-	ISOPROPYLANILINE	-	-	-	-	-	-
80-05-7	4,4-	ISOPROPYLDENEDIPHENOL	-	-	-	-	-	-
119-38-0	-	ISOPROPYLMETHYLPYRAZOLYL DIMETHYLCARBAMATE	1	500	-	-	-	-
120-58-1	-	ISOSAFROLE	100	-	-	-	-	-
2763-96-4	3(2H)-	ISOXAZOLONE, 5-(AMINOMETHYL)-	1000	-	7	-	-	-
1332-58-7	-	KAOLIN	-	-	-	-	-	-
143-50-0	-	KEPONE	1	-	-	-	-	-
463-51-4	-	KETENE	-	-	-	-	-	-
78-97-7	-	LACTONITRILE	1	1000	-	-	-	-
303-34-4	-	LASIOCARPINE	10	-	-	-	-	-
7439-92-1	-	LEAD	1	-	-	-	-	-
301-04-2	-	LEAD ACETATE	5000	-	-	-	-	-
7645-25-2	-	LEAD ARSENATE	1	-	-	-	-	-
7784-40-9	-	LEAD ARSENATE	1	-	-	-	-	-
10102-48-4	-	LEAD ARSENATE	1	-	-	-	-	-
10102-48-4	-	LEAD ARSENATE AS Pb(AsO ₄) ₂	-	-	-	-	-	-
1335-32-6	-	LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-	100	-	-	-	-	-
7758-95-4	-	LEAD CHLORIDE	100	-	-	-	-	-
7758-97-6	-	LEAD CHROMATE	-	-	-	-	-	-
18454-12-1	-	LEAD CHROMATE (VI) OXIDE	-	-	-	-	-	-
-	-	LEAD COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	-	-
13814-96-5	-	LEAD FLUOBORATE	100	-	-	-	-	-
7783-46-2	-	LEAD FLUORIDE	100	-	-	-	-	-
10101-63-0	-	LEAD IODIDE	100	-	-	-	-	-
10099-74-8	-	LEAD NITRATE	100	-	-	-	-	-
7446-27-7	-	LEAD PHOSPHATE	1	-	-	-	-	-
1072-35-1	-	LEAD STEARATE	5000	-	-	-	-	-
7428-48-0	-	LEAD STEARATE	5000	-	-	-	-	-
82652-59-2	-	LEAD STEARATE	5000	-	-	-	-	-
56189-09-4	-	LEAD STEARATE	5000	-	-	-	-	-
1335-32-6	-	LEAD SUBACETATE	100	-	-	-	-	-
7446-14-2	-	LEAD SULFATE	100	-	-	-	-	-
18739-80-7	-	LEAD SULFATE	100	-	-	-	-	-
1314-87-0	-	LEAD SULFIDE	5000	-	-	-	-	-
592-87-0	-	LEAD THIOCYANATE	100	-	-	-	-	-
7439-92-1	-	LEAD, INORGANIC COMPOUNDS	-	-	-	-	-	-
7439-92-1	-	LEAD, INORGANIC, FUME AND DUST	-	-	-	-	-	-
7439-92-1	-	LEAD, ORGANIC SOAPS	-	-	-	-	-	-
21609-90-5	-	LEPTOPHOS	1	500/10000	-	-	-	-
641-25-3	-	LEWISITE	1	10	-	-	-	-
1357-65-3	-	LIMESTONE	-	-	-	-	-	-
58-89-9	-	LINDANE	1	1000/10000	-	-	-	-
58-89-9	GAMMA-	LINDANE	-	-	-	-	-	-
319-84-6	ALPHA-	LINDANE	-	-	-	-	-	-
319-85-7	BETA-	LINDANE	-	-	-	-	-	-
608-73-1	-	LINDANE - MIXED ISOMERS	-	-	-	-	-	-
58-89-9	-	LINDANE AND OTHER	-	-	-	-	-	-
58-89-9	-	HEXACHLOROCYCLOHEXANE ISOMERS	-	-	-	-	-	-
58-89-9	-	LINDANE (CYCLOHEXANE, 1,2,3,4,5,6-	1	1000/10000	-	-	-	-
58-89-9	-	HEXACHLORO-(1,1,2,2,3,3,4,4,5,5,6,6-	-	-	-	-	-	-
68476-85-7	-	LIQUEFIED PETROLEUM GAS (L.P.G.)	-	-	-	-	-	-
14307-35-8	-	LITHIUM CHROMATE	10	-	-	-	-	-
7580-67-8	-	LITHIUM HYDRIDE	1	100	-	-	-	-
632-99-5	-	MAGENTA, MANUFACTURE OF	-	-	-	-	-	-
546-93-0	-	MAGNESITE	-	-	-	-	-	-
1309-48-4	-	MAGNESIUM OXIDE FUME	-	-	-	-	-	-
121-75-5	-	MALATHION	100	-	-	-	-	-
110-16-7	-	MALEIC ACID	5000	-	-	-	-	-
106-31-6	-	MALEIC ANHYDRIDE	5000	-	-	-	-	-
123-33-1	-	MALEIC HYDRAZIDE	5000	-	-	-	-	-
109-77-3	-	MALONONITRILE	1000	500/10000	-	-	-	-
12427-38-2	-	MANEB (CARBAMODITHIOIC ACID, 1,2- ETHANEDIYLBIS-, MANGANESE COMPLEX)	-	-	-	-	-	-
7439-96-5	-	MANGANESE	-	-	-	-	-	-

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
-	MANGANESE COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	•	-	-
12079-65-1	MANGANESE CYCLOPENTADIENYL TRICARBONYL	-	-	-	•	-	-	-
7439-96-5	MANGANESE DUST AND COMPOUNDS	-	-	-	•	?	-	-
7439-96-5	MANGANESE FUME	-	-	-	•	?	-	-
1317-35-7	MANGANESE TETROXIDE	-	-	-	•	-	-	-
12108-13-3	MANGANESE, TRICARBONYL METHYLCYCLOPENTADIENYL	1	100	•	?	-	-	eh
1317-65-3	MARBLE/CALCIUM CARBONATE	-	-	-	•	-	-	-
51-75-2	MECHLORETHAMINE	1	10	•	?	?	-	cs
148-82-3	MELPHALAN	1	-	-	•	-	•	-
950-10-7	MEPHOSFOLAN	1	500	•	-	-	-	-
2032-65-7	MERCAPTODIMETHUR	10	-	?	-	-	•	-
1600-27-7	MERCURIC ACETATE	1	500/10000	•	-	-	-	•
7487-94-7	MERCURIC CHLORIDE	1	500/10000	•	-	-	-	•
592-04-1	MERCURIC CYANIDE	1	-	-	-	-	•	-
10045-94-0	MERCURIC NITRATE	10	-	-	-	-	•	-
21908-53-2	MERCURIC OXIDE	1	500/10000	•	-	-	-	•
7783-35-9	MERCURIC SULFATE	10	-	-	-	-	•	-
592-85-8	MERCURIC THIOCYANATE	10	-	-	-	-	•	-
7782-86-7	MERCUROUS NITRATE	10	-	-	-	-	•	-
10415-75-5	MERCUROUS NITRATE	10	-	-	-	-	•	-
7439-97-6	MERCURY	1	-	-	•	•	•	-
-	MERCURY COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	•	•	-
628-86-4	MERCURY FULMINATE	10	-	-	-	-	•	-
62-38-4	MERCURY, (ACETATO-O)PHENYL-	100	-	?	-	-	•	-
7439-97-6	MERCURY, ALKYL COMPOUNDS	-	-	-	•	?	?	-
7439-97-6	MERCURY, ALL FORMS EXCEPT ALKYL VAPOR	-	-	-	•	?	?	-
79-97-6	MERCURY, ARYL AND INORGANIC COMPOUNDS	-	-	-	•	?	?	-
1-76-0	MERPHALAN	-	-	-	•	-	-	-
141-79-7	MESITYL OXIDE	-	-	-	•	-	-	-
72-33-3	MESTRANOL	-	-	-	•	-	-	-
10476-95-6	METHACROLEIN DIACETATE	1	1000	•	-	-	-	•
79-41-4	METHACRYLIC ACID	-	-	-	•	-	-	-
760-93-0	METHACRYLIC ANHYDRIDE	1	500	•	-	-	-	•
126-98-7	METHACRYLONITRILE	1000	500	•	?	-	•	h
920-46-7	METHACRYLOYL CHLORIDE	1	100	•	-	-	-	•
30674-80-7	METHACRYLOYLOXYETHYL ISOCYANATE	1	100	•	-	-	-	eh
10265-92-6	METHAMIDOPHOS	1	100/10000	•	-	-	-	•
124-40-3	METHANAMINE, N-METHYL-	1000	-	-	?	-	•	-
62-75-9	METHANAMINE, N-METHYL-N-NITROSO	10	-	?	?	?	•	-
74-82-8	METHANE	-	-	-	•	-	-	-
74-83-9	METHANE, BROMO-	1000	-	?	?	?	•	-
74-87-3	METHANE, CHLORO-	100	-	-	?	?	•	-
107-30-2	METHANE, CHLOROMETHOXY-	10	-	?	?	?	•	-
74-95-3	METHANE, DIBROMO-	1000	-	-	-	?	•	-
75-09-2	METHANE, DICHLORO-	1000	-	-	?	?	•	-
75-71-8	METHANE, DICHLORODIFLUORO-	5000	-	-	?	-	•	-
74-88-4	METHANE, IODO-	100	-	-	?	?	•	-
624-83-9	METHANE, ISOCYANATO-	1	-	?	?	?	•	-
542-88-1	METHANE, OXYBIS(CHLORO-	10	-	?	?	?	•	-
56-23-5	METHANE, TETRACHLORO-	10	-	-	?	?	•	-
508-14-8	METHANE, TETRANITRO-	10	-	?	?	-	•	-
75-25-2	METHANE, TRIBROMO-	100	-	-	?	?	•	-
67-66-3	METHANE, TRICHLORO-	10	-	?	?	?	•	-
75-69-4	METHANE, TRICHLOROFUORO-	5000	-	-	?	-	?	-
594-42-3	METHANESULFENYL CHLORIDE, TRICHLORO-	100	-	?	?	-	?	-
62-50-0	METHANESULFONIC ACID, ETHYL ESTER	1	-	-	?	-	•	-
558-25-8	METHANESULFONYL FLUORIDE	1	1000	•	-	-	-	•
74-93-1	METHANETHIOL	100	-	?	?	-	•	-
76-44-8	METHANO-1H-INDENE, 1,4,5,6,7,8,8- HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-	1	-	-	?	?	•	-
64-18-6	METHANOIC ACID	5000	-	-	?	-	•	-
57-74-9	METHANOINDAN, 1,2,4,5,6,7,8,8- OCTACHLORO-3A,4,7,7A-TETRAHYDRO-	1	-	?	?	?	•	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
67-56-1	-	5000	-	-	?	*	*	-
91-80-5	-	5000	-	-	-	-	*	-
143-50-0	1,3,4-	1	-	-	?	-	*	-
	METHANOL							
	METHAPYRILENE							
	METHENO-2H-CYCLOBUTAC(D)IPENALEN- 2-ONE-1,1A,3,3A,4,5,5A,5B,6- DECACHLOROOCCTAHYDRO-							
950-37-8	-	1	500/10000	*	-	-	-	e
2032-65-7	-	10	500/10000	*	-	-	?	-
16752-77-5	-	100	500/10000	*	*	-	*	h
298-81-7	-	-	-	-	*	-	-	-
	METHOXSALEN WITH ULTRAVIOLET A THERAPY (PUVA)							
72-43-5	-	1	-	-	*	?	*	-
72-43-5	-	1	-	-	*	*	*	-
	METHOXYCHLOR (BENZENE, 1,1'-(2,2,2- TRICHLOROETHYLIDENE)BIS [4- METHOXY-							
109-86-4	2-	-	-	-	*	*	-	-
110-49-6	2-	-	-	-	*	-	-	-
151-38-2	-	1	500/10000	*	-	-	-	e
150-76-5	4-	-	-	-	*	-	-	-
298-81-7	8-	-	-	-	*	-	-	-
	METHOXYPORALEN							
	METHRONIDAZOLE							
80-63-7	-	1	500	*	-	-	-	e
137-05-3	-	-	-	-	*	-	-	-
79-20-9	-	-	-	-	*	-	-	-
74-99-7	-	-	-	-	*	-	-	-
	METHYL ACETYLENE							
	METHYL ACETYLENE-PROPADIENE MIXTURE (MAPP)							
96-33-3	-	-	-	-	*	*	-	-
67-56-1	-	5000	-	-	*	?	*	-
100-61-8	N-	-	-	-	*	-	-	-
	METHYL ANILINE (MONOMETHYL ANILINE)							
74-83-9	-	1000	1000	*	*	?	*	1
109-84-4	-	-	-	-	*	-	-	-
110-49-6	-	-	-	-	*	-	-	-
74-87-3	-	100	-	-	*	?	*	-
79-22-1	-	1000	-	?	-	-	*	-
71-55-6	-	1000	-	-	*	?	*	-
79-22-1	-	1000	500	*	-	-	?	d,h
107-30-2	-	-	-	?	*	?	?	-
8022-00-2	-	-	-	-	*	-	-	-
78-93-3	-	5000	-	-	*	*	*	-
1338-23-4	-	10	-	-	*	-	*	-
107-31-3	-	-	-	-	*	-	-	-
60-34-4	-	10	500	*	*	*	*	-
74-88-4	-	100	-	-	*	*	*	-
110-12-3	-	-	-	-	*	-	-	-
108-11-2	-	-	-	-	*	-	-	-
108-10-1	-	5000	-	-	*	*	*	-
624-83-9	-	1	500	*	*	*	*	f
583-80-4	-	-	-	-	*	-	-	-
556-61-6	-	1	500	*	-	-	-	ba
74-93-1	-	100	500	*	*	-	?	-
80-62-6	-	1000	-	-	*	*	*	-
66-27-3	-	-	-	-	*	-	-	-
110-43-0	-	-	-	-	*	-	-	-
591-78-6	-	-	-	-	*	-	-	-
298-00-0	-	100	-	?	*	-	*	-
3735-23-7	-	1	500	*	-	-	-	e
676-97-1	-	1	100	*	-	-	-	ba
107-87-9	-	-	-	-	*	-	-	-
681-84-5	-	-	-	-	*	-	-	-
98-83-9	-	-	-	-	*	-	-	-
1834-04-4	ALPHA-	-	-	-	*	-	-	-
556-64-9	-	1	10000	*	-	-	-	e
78-94-4	-	1	10	*	-	-	-	e
129-15-7	2-	-	-	-	*	-	-	-
108-10-1	4-	5000	-	-	?	?	*	-
70-25-7	N-	10	-	-	*	-	*	-
	METHYL N-NITRO-N- NITROSOGUANIDINE							
126-98-7	-	-	-	?	*	-	?	-
	METHYLACRYLONITRILE							

Appendix 2(b)

CAS or Other ID. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
109-87-5	- METHYLAL	-	-	-	•	-	-	-
74-89-5	- METHYLAMINE	-	-	-	•	-	?	-
75-85-8	2- METHYLAZIRIDINE	1	-	?	•	?	•	-
592-62-1	- METHYLZOXYMETHANOL ACETATE	-	-	-	•	-	-	-
504-80-9	1- METHYLBUTADIENE	100	-	-	-	-	•	-
56-49-5	3- METHYLCHOLANTHRENE	10	-	-	-	-	•	-
3697-24-3	5- METHYLCRYSENE	-	-	-	•	-	-	-
108-87-2	- METHYLCYCLOHEXANE	-	-	-	•	-	-	-
25639-42-3	- METHYLCYCLOHEXANOL	-	-	-	•	-	-	-
583-60-8	0- METHYLCYCLOHEXANONE	-	-	-	•	-	-	-
12108-13-3	- METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL	-	-	?	•	-	-	-
101-14-4	4,4'- METHYLENE BIS (2-CHLOROANILINE) (MBOCA)	10	-	-	•	•	•	-
101-14-4	4,4'- METHYLENE BIS(2-CHLOROANILINE) (MOCA)	10	-	-	•	?	•	-
838-88-0	4,4'- METHYLENE BIS(2-METHYLANILINE)	-	-	-	•	-	-	-
5124-30-1	- METHYLENE BIS(4-CYCLOHEXYL ISOCYANATE)	-	-	-	•	-	-	-
101-61-1	4,4'- METHYLENE BIS(N,N- DIMETHYL)BENZENEAMINE	-	-	-	•	•	-	-
101-68-8	- METHYLENE BIS(PHENYLISOCYANATE)(MBI)	-	-	-	?	•	-	-
101-68-8	- METHYLENE BISPHENYL ISOCYANATE	-	-	-	•	?	-	-
74-95-3	- METHYLENE BROMIDE	1000	-	-	-	•	•	-
75-09-2	- METHYLENE CHLORIDE	1000	-	-	-	?	•	-
101-77-9	4,4- METHYLENE DIANILINE	-	-	-	?	•	-	-
101-14-4	4,4'- METHYLENEBIS(2-CHLOROANILINE)	10	-	-	?	?	•	-
70-30-4	2,2'- METHYLENEBIS(3,4,6-TRICHLOROPHENOL)	100	-	-	-	-	•	-
101-77-9	4,4'- METHYLENEDIANILINE	-	-	-	•	?	-	-
552-44-8	4,4'- METHYLENEDIANILINE CHLORIDE	-	-	-	•	-	-	-
86-5	2- METHYLLACTONITRILE	10	-	?	-	-	•	-
74-93-1	- METHYLMERCAPTAN	100	-	?	?	-	•	-
502-39-6	- METHYLMERCURIC DICYANAMIDE	1	500/10000	•	-	-	-	•
56-04-2	- METHYLTHIOURACIL	10	-	-	•	-	-	•
75-79-6	- METHYLTRICHLOROSILANE	1	500	•	-	-	-	eh
1129-41-5	- METOLCARB	1	100/10000	•	-	-	-	•
-	- METOXSALEN WITH ULTRAVIOLET A THERAPY (PUVA)	-	-	-	•	-	-	-
21087-64-9	- METRIBUZIN	-	-	-	•	-	-	-
443-48-1	- METRONIDAZOLE	-	-	-	•	-	-	-
7786-34-7	- MEVINPHOS	10	500	•	•	-	•	-
315-18-4	- MEXACARBATE	1000	500/10000	•	-	-	•	-
12001-26-2	- MICA	-	-	-	•	-	-	-
90-94-8	- MICHLER'S KETONE	-	-	-	•	•	-	-
8002-05-9	- MINERAL OILS (CONTAINING VARIOUS ADDITIVES AND IMPURITIES) USED --	-	-	-	•	-	-	-
8002-05-9	- MINERAL OILS: ACID-TREATED OILS	-	-	-	•	-	-	-
8002-05-9	- 82	-	-	-	•	-	-	-
8002-05-9	- MINERAL OILS: MILDLY HYDROTREATED OILS	-	-	-	•	-	-	-
8002-05-9	- MINERAL OILS: MILDLY SOLVENT- REFINED OILS	-	-	-	•	-	-	-
8002-05-9	- MINERAL OILS: UNTREATED VACUUM DISTILLATES	-	-	-	•	-	-	-
8002-05-9	- MINERAL OILS: USED GASOLINE-ENGINE OIL	-	-	-	•	-	-	-
-	- MINERAL WOOL FIBER	-	-	-	•	-	-	-
2385-85-5	- MIREX	-	-	-	•	-	-	-
50-07-7	- MITOMYCIN C	10	500/10000	•	•	-	•	d
70-25-7	- MNNG	10	-	-	?	-	•	-
7439-98-7	- MOLYBDENUM-INSOLUBLE COMPOUNDS	-	-	-	•	-	-	-
1313-27-5	- MOLYBDENUM TRIOXIDE	-	-	-	-	•	-	-
7439-98-7	- MOLYBDENUM-SOLUBLE COMPOUNDS	-	-	-	•	-	-	-
315-22-0	- MONOCROTALINE	-	-	-	•	-	-	-
6923-22-4	- MONOCROTAPHOS	1	10/10000	•	•	-	-	•
75-04-7	- MONOETHYLAMINE	100	-	-	•	-	•	-
74-89-5	- MONOMETHYLAMINE	100	-	-	?	-	•	-
10-91-8	- MORPHOLINE	-	-	-	•	-	-	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
13146-28-6	5-(MORPHOLINOMETHYL)-3-((5-NITROFURFURYLIDENE)...(D1-FORM HYDROCHLORIDE)	-	-	-	*	-	-	-
3795-88-8	5-(MORPHOLINOMETHYL)-3-((5-NITROFURFURYLIDENE)AMINO)-2-OXAZO...(1-FORM)	-	-	-	*	-	-	-
139-91-3	5-(MORPHOLINOMETHYL)-3-((5-NITROFURFURYLIDENE)AMINO)-2-OXAZO...(D1-FORM)	-	-	-	*	-	-	-
2763-98-4	MUSCIMOL	1000	10000	*	-	-	?	a,h
505-60-2	MUSTARD GAS	1	500	*	*	?	-	eh
505-60-2	MUSTARD GAS [ETHANE,1,1'-THIOBIS (2-CHLORO-)]	1	500	*	*	*	-	eh
55-98-1	MYLERAN	-	-	-	*	-	-	-
3771-19-5	NAFENOPIN	-	-	-	*	-	-	-
300-76-5	NALED	10	-	-	*	-	*	-
8030-30-6	NAPHTHA (COAL TAR)	-	-	-	*	-	-	-
8030-30-6	NAPHTHA, VM & P	-	-	-	*	-	-	-
134-32-7	1-NAPHTHALENAMINE	100	-	-	*	?	*	-
91-59-8	2-NAPHTHALENAMINE	10	-	-	?	?	*	-
91-20-3	NAPHTHALENE	100	-	-	*	*	*	-
91-58-7	NAPHTHALENE, 2-CHLORO-	5000	-	-	-	-	*	-
130-15-4	1,4-NAPHTHALENEDIONE	5000	-	-	-	-	*	-
72-57-1	2,7-NAPHTHALENEDISULFONIC ACID, 3,3'- (SEE TRYPAN BLUE)	10	-	-	?	-	*	-
1338-24-5	NAPHTHENIC ACID	100	-	-	-	-	*	-
130-15-4	1,4-NAPHTHOQUINONE	5000	-	-	-	-	*	-
91-59-8	2-NAPHTHYLAMINE	-	-	-	*	?	?	-
91-59-8	BETA-NAPHTHYLAMINE	1	-	-	*	*	*	-
134-32-7	ALPHA-NAPHTHYLAMINE	100	-	-	*	*	*	-
494-03-1	2-NAPHTHYLAMINE, N,N-BIS(2-CHLOROETHYL)-	100	-	-	*	-	*	-
86-88-4	ALPHA-NAPHTHYLTHIOUREA	100	-	-	?	?	-	-
20830-81-3	5,12-NAPHTHACENEDIONE, ... (SEE DAUNOMYCIN)	10	-	-	-	?	-	-
7440-01-9	NEON	-	-	-	*	-	-	-
7440-02-0	NICKEL	100	-	-	*	*	*	tt
15699-18-0	NICKEL AMMONIUM SULFATE	100	-	-	-	-	*	-
-	NICKEL AND COMPOUNDS	-	-	-	-	?	*	-
13463-39-3	NICKEL CARBONYL	10	1	-	*	-	*	d
13463-39-3	NICKEL CARBONYL NI(CO)4(T-4)	10	-	-	?	?	*	-
7718-54-9	NICKEL CHLORIDE	100	-	-	-	-	*	-
37211-05-5	NICKEL CHLORIDE	100	-	-	-	-	*	-
7440-02-0	NICKEL COMPOUNDS	-	-	-	*	?	?	-
-	NICKEL COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	*	*	-
557-19-7	NICKEL CYANIDE	10	-	-	-	-	*	-
557-19-7	NICKEL CYANIDE NI(CN)2	10	-	-	-	-	*	-
12054-48-7	NICKEL HYDROXIDE	10	-	-	-	-	*	-
14216-75-2	NICKEL NITRATE	100	-	-	-	-	*	-
1313-99-1	NICKEL OXIDE	-	-	-	*	-	-	-
7440-02-0	NICKEL REFINING	-	-	-	*	?	?	-
7440-02-0	NICKEL SOLUBLE COMPOUNDS	-	-	-	*	?	?	-
12035-72-2	NICKEL SUBSULFIDE	-	-	-	*	-	-	-
7786-81-4	NICKEL SULFATE	100	-	-	-	-	*	-
10812-54-7	NICKEL SULFIDE ROASTING, FUME AND DUST, AS NI	-	-	-	*	-	-	-
7440-02-0	NICKEL, METAL	-	-	-	*	?	?	-
1271-28-9	NICKELCENE	-	-	-	*	-	-	-
54-11-5	NICOTINE	100	100	*	*	-	?	e
54-11-5	NICOTINE AND SALTS	100	-	-	?	?	*	-
65-30-5	NICOTINE SULFATE	1	100/10000	*	-	-	-	e
61-57-4	NIRIDAZOLE	-	-	-	*	-	-	-
1929-82-4	NITRAPYRIN	-	-	-	*	-	-	-
7697-37-2	NITRIC ACID	1000	1000	*	*	*	*	-
10102-43-9	NITRIC OXIDE	10	100	*	*	-	*	e
139-13-9	NITRILOTRIACETIC ACID	-	-	-	*	*	-	-
531-82-8	N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)ACETAMIDE	-	-	-	*	-	-	-
99-59-2	5-NITRO-O-ANISIDINE	-	-	-	*	*	-	-

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E N T R A L	NOTES
99-55-8	5- NITRO-O-TOLUIDINE	100	-	-	-	-	•	-
902-87-9	5- NITROACENAPHTHENE	-	-	-	•	-	•	-
100-01-6	P- NITROANILINE	5000	-	-	•	-	•	-
98-95-3	- NITROBENZENE	1000	10000	•	•	•	•	1
92-93-3	4- NITROBIPHENYL	-	-	-	-	•	-	-
100-00-5	P- NITROCHLOROBENZENE	-	-	-	•	-	-	-
1122-60-7	- NITROCYCLOHEXANE	1	500	•	-	-	-	•
92-93-3	4- NITRODIPHENOL	-	-	-	-	?	-	-
79-24-3	- NITROETHANE	-	-	-	•	-	-	-
1836-75-5	- NITROFEN	-	-	-	-	?	-	-
1836-75-5	- NITROFEN (TECHNICAL GRADE)	-	-	-	-	?	-	-
1836-75-5	- NITROFEN (BENZENE, 2,4-DICHLORO-1-(4-NITROPHENOXY)-)	-	-	-	•	•	-	-
555-84-0	1-((5-NITROFURFURYLIDENE)AMINO)-2-IMIDAZOLIDINONE	-	-	-	•	-	-	-
10102-44-0	- NITROGEN DIOXIDE	10	100	•	•	-	•	-
10544-72-6	- NITROGEN DIOXIDE	10	-	-	-	-	•	-
51-75-2	- NITROGEN MUSTARD	-	-	?	•	?	-	-
126-85-2	- NITROGEN MUSTARD N-OXIDE	-	-	-	•	-	-	-
51-75-2	- NITROGEN MUSTARD (2-CHLORO-N-(2-CHLOROETHYL)-N-METHYLETHANAMINE)	-	-	?	•	•	-	-
7783-54-2	- NITROGEN TRIFLUORIDE	-	-	-	•	-	-	-
10102-43-0	- NITROGEN(II) OXIDE	10	-	?	?	-	•	-
10102-44-0	- NITROGEN(IV) OXIDE	10	-	?	?	-	•	-
10544-72-6	- NITROGEN(IV) OXIDE	10	-	-	-	-	•	-
55-63-0	- NITROGLYCERINE	10	-	-	•	•	•	-
75-52-5	- NITROMETHANE	-	-	-	•	-	-	-
88-75-5	2- NITROPHENOL	100	-	-	-	•	•	-
100-02-7	4- NITROPHENOL	100	-	-	-	•	•	-
4-75-5	O- NITROPHENOL (MXED)	100	-	-	-	?	•	-
0-02-7	P- NITROPHENOL (MXED)	100	-	-	-	?	•	-
4-84-7	M- NITROPHENOL (MXED)	100	-	-	-	-	•	-
25154-55-6	- NITROPHENOL (MXED)	100	-	-	-	-	•	-
-	- NITROPHENOLS	-	-	-	-	?	•	-
79-46-9	2- NITROPROPANE	10	-	-	•	•	•	-
108-03-2	1- NITROPROPANE	-	-	-	-	-	•	-
-	- NITROSAMINES	-	-	-	-	-	•	-
759-73-9	N- NITROSO-N-ETHYLUREA	1	-	-	-	•	•	-
684-93-5	N- NITROSO-N-METHYLUREA	1	-	-	-	•	•	-
615-53-2	N- NITROSO-N-METHYLURETHANE	1	-	-	-	•	•	-
924-16-3	N- NITROSODI-N-BUTYLAMINE	10	-	-	-	•	•	-
621-64-7	N- NITROSODI-N-PROPYLAMINE	-	-	-	-	•	?	-
1116-54-7	N- NITROSODIETHANOLAMINE	1	-	-	-	•	•	-
55-18-5	N- NITROSODIETHYLAMINE	1	-	-	-	•	•	-
62-75-9	N- NITROSODIMETHYLAMINE	10	-	?	•	•	•	-
62-75-9	- NITROSODIMETHYLAMINE	1	1000	•	?	?	?	4h
96-30-6	N- NITROSODIPHENYLAMINE	100	-	-	-	•	•	-
156-10-5	P- NITROSODIPHENYLAMINE	-	-	-	-	•	•	-
10595-95-6	N- NITROSOMETHYLETHYLAMINE	-	-	-	-	•	-	-
4549-40-0	N- NITROSOMETHYL VINYLAMINE	10	-	-	-	•	•	-
59-89-2	N- NITROSOMORPHOLINE	-	-	-	-	•	•	-
16543-55-6	N- NITROSONORNICOTINE	-	-	-	-	•	•	-
53759-22-1	N- NITROSONORNICOTINE	-	-	-	-	•	•	-
100-75-4	N- NITROSOPIPERIDINE	10	-	-	-	•	•	-
930-55-2	N- NITROSOPYRROLIDINE	1	-	-	-	•	•	-
13256-22-9	N- NITROSOSARCOSINE	-	-	-	-	•	-	-
88-72-2	O- NITROTOLUENE	1000	-	-	-	-	•	-
99-08-1	M- NITROTOLUENE	1000	-	-	-	-	•	-
99-99-0	P- NITROTOLUENE	1000	-	-	-	-	•	-
1321-12-6	- NITROTOLUENE	1000	-	-	-	-	•	-
111-84-2	- NONANE	-	-	-	-	-	-	-
991-42-4	- NORBORMIDE	1	100/10000	•	-	-	-	•
115-29-7	5- NORBORNENE-2,3-DIMETHANOL, 1,4,5,6,7,7-HEXACHLORO, CYCLIC SULFITE	1	-	?	?	-	•	-
68-22-4	- NORETHISTERONE	-	-	-	•	-	-	-
-	- NUISANCE PARTICULATES (DUST), RESPIRABLE FRACTION	-	-	-	•	-	-	-
-	- NUISANCE PARTICULATES (DUST), TOTAL DUST	-	-	-	•	-	-	-

Appendix 2(b)

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
12234-13-1	OCTACHLORONAPHTHALENE	-	-	-	•	•	-	-
152-16-9	OCTAMETHYLPYROPHOSPHORAMIDE	100	-	?	-	-	•	-
111-65-9	OCTANE	-	-	-	•	-	-	-
-	OESTRADIOL - 17B	-	-	-	•	-	-	-
-	OESTROGENS, CONJUGATED	-	-	-	•	-	-	-
53-16-7	OESTRONE	-	-	-	•	-	-	-
8012-95-1	OIL MIST-MINERAL	-	-	-	•	-	-	-
-	OIL ORANGE SS	-	-	-	•	-	-	-
-	OIL SHALE SOOT-EXTRACTS	-	-	-	•	-	-	-
-	ORAL CONTRACEPTIVES, COMBINED	-	-	-	•	-	-	-
-	ORAL CONTRACEPTIVES, SEQUENTIAL	-	-	-	•	-	-	-
-	ORGANO (ALKYL) MERCURY	-	-	-	•	-	-	-
PMN82147	ORGANORHODIUM COMPLEX	1	10/10000	•	-	-	-	e
20816-12-0	OSMIUM OXIDE	1000	-	-	?	?	•	-
20816-12-0	OSMIUM TETROXIDE	1000	-	-	•	•	•	-
630-60-4	OUABAIN	1	100/10000	•	-	-	-	c,s
145-73-3	OXABICYCLO(2.2.1)HEPTANE-2,3-DICARBOXYLIC ACID	1000	-	-	-	-	•	-
144-62-7	OXALIC ACID	-	-	-	•	-	-	-
23135-22-0	OXAMYL	1	100/10000	•	-	-	-	e
1120-71-4	OXATHIOLANE, 2,2-DIOXIDE	10	-	-	?	?	•	-
50-18-0	OXAZAPHOSPHORIN,2-AMINE,N,N-BIS(CHLOROETHYL) TETRAHYDRO-2-OXIDE	10	-	-	?	-	•	-
78-71-7	OXETANE, 1,3-BIS(CHLOROMETHYL)	1	500	•	-	-	-	e
75-21-8	OXIRANE	10	-	?	?	?	•	-
106-89-8	OXIRANE, (CHLOROMETHYL)-	100	-	?	?	?	•	-
2497-07-6	OXYDISULFOTON	1	500	•	-	-	-	sh
7783-41-7	OXYGEN DIFLUORIDE	-	-	-	•	-	-	-
434-07-1	OXYMETHOLONE	-	-	-	•	-	-	-
10028-15-6	OZONE	1	100	•	•	-	-	e
794-93-4	PANFURAN S	-	-	-	•	-	-	-
-	(DIHYDROXYMETHYLFURATRIZINE)	-	-	-	•	-	-	-
8002-74-2	PARAFFIN WAX FUME	-	-	-	-	-	-	-
30525-89-4	PARAFORMALDEHYDE	1000	-	-	-	-	•	-
123-63-7	PARALDEHYDE	1000	-	-	-	-	•	-
1910-42-5	PARAQUAT	1	10/10000	•	•	-	-	e
2074-50-2	PARAQUAT METHOSULFATE	1	10/10000	•	-	-	-	e
4685-14-7	PARAQUAT, RESPIRABLE SIZES	-	-	-	•	-	-	-
56-38-2	PARATHION	10	100	•	•	?	•	c,d
56-38-2	PARATHION (PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(4-NITROPHENYL) ESTER)	10	100	•	•	•	•	c,d
298-00-0	PARATHION-METHYL	100	100/10000	•	?	-	?	e
12002-03-8	PARIS GREEN	100	500/10000	•	?	-	?	d
19624-22-7	PENTABORANE	1	500	•	•	-	-	e
608-93-5	PENTACHLOROBENZENE	10	-	-	-	-	•	-
76-01-7	PENTACHLOROETHANE	10	-	-	-	-	•	d
1321-64-8	PENTACHLORONAPHTHALENE	-	-	-	•	-	-	-
82-68-8	PENTACHLORONITROBENZENE	100	-	-	-	?	•	-
87-86-5	PENTACHLOROPHENOL	10	-	-	•	?	•	d
87-86-5	PENTACHLOROPHENOL (PCP)	-	-	-	?	•	?	-
2570-26-5	PENTADECYLAMINE	1	100/10000	•	-	-	-	e
504-60-9	PENTADIENE	100	-	-	-	-	•	-
115-77-5	PENTAERYTHRITOL	-	-	-	•	-	-	-
109-66-0	PENTANE	-	-	-	•	-	-	-
79-21-0	PERACETIC ACID	1	500	•	-	•	-	e
127-18-4	PERCHLOROETHYLENE	100	-	-	•	?	•	-
594-42-3	PERCHLOROMETHYLMERCAPTAN	100	500	•	•	-	?	-
7616-94-6	PERCHLORYL FLUORIDE	-	-	-	•	-	-	-
-	PERLITE	-	-	-	•	-	-	-
62-44-2	PHENACETIN	100	-	-	•	-	•	-
62-44-2	PHENACETIN, ANALGESIC MIXTURES CONTAINING	-	-	-	•	-	?	-
85-01-8	PHENANTHRENE	5000	-	-	•	-	•	-
94-78-0	PHENAZOPYRIDINE	-	-	-	•	-	-	-
136-40-3	PHENAZOPYRIDINE HYDROCHLORIDE	-	-	-	•	-	-	-
108-95-2	PHENOL	1000	500/10000	•	•	•	•	-
696-28-6	PHENOL DICHLOROARSINE	1	-	?	-	-	•	-

CAS or Other I.D. No.	CHEMICAL NAME	RC	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
4418-86-0	-	PHENOL, 2,2'-THIOBIS(4-CHLORO-6-METHYL-	1	100/10000	*	-	-	*
58-90-2	-	PHENOL, 2,3,4,6-TETRACHLORO-	10	-	-	-	*	-
95-95-4	-	PHENOL, 2,4,6-TRICHLORO-	10	-	-	?	*	-
88-06-2	-	PHENOL, 2,4,6-TRICHLORO-	10	-	-	?	*	-
131-74-8	-	PHENOL, 2,4,6-TRINITRO-AMMONIUM SALT	10	-	-	-	*	-
120-83-2	-	PHENOL, 2,4-DICHLORO-	100	-	-	?	*	-
105-67-9	-	PHENOL, 2,4-DIMETHYL-	100	-	-	?	*	-
51-28-5	-	PHENOL, 2,4-DINITRO-	10	-	-	?	*	-
88-85-7	-	PHENOL, 2,4-DINITRO-6-(1-METHYLPROPYL)	1000	-	?	-	*	-
534-52-1	-	PHENOL, 2,4-DINITRO-6-METHYL-AND SALTS	10	-	?	?	?	*
87-65-0	-	PHENOL, 2,6-DICHLORO-	100	-	-	-	*	-
95-57-8	-	PHENOL, 2-CHLORO-	100	-	-	-	*	-
131-89-5	-	PHENOL, 2-CYCLOHEXYL-4,6-DINITRO	100	-	-	-	*	-
64-00-6	-	PHENOL, 3-(1-METHYLETHYL)-, METHYLCARBAMATE	1	500/10000	*	-	-	*
59-50-7	-	PHENOL, 4-CHLORO-3-METHYL-	5000	-	-	-	*	-
100-02-7	-	PHENOL, 4-NITRO	100	-	-	?	*	-
56-53-1	-	PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL) BIS-(E)	1	-	-	?	*	-
87-86-5	-	PHENOL, PENTACHLORO-	10	-	-	?	?	*
92-84-2	-	PHENOTHIAZINE	-	-	-	*	-	-
58-36-6	-	PHENOXARSINE, 10, 10'-OXIDI	1	500/10000	*	-	-	*
-	-	PHENOXYACETIC ACID HERBICIDES (OCCUPATIONAL EXPOSURE TO)	-	-	-	*	-	-
59-96-1	-	PHENOXYBENZAMINE	-	-	-	*	-	-
63-92-3	-	PHENOXYBENZAMINE HYDROCHLORIDE	-	-	-	*	-	-
9-28-6	-	PHENYL DICHLOROARSINE	1	500	*	-	*	dh
1-84-8	-	PHENYL ETHER (VAPOR)	-	-	-	*	-	-
-	-	PHENYL ETHER-BIPHENYL MIXTURE (VAPOR)	-	-	-	*	-	-
122-60-1	-	PHENYL GLYCIDYL ETHER (PGE)	-	-	-	*	-	-
108-98-5	-	PHENYL MERCAPTAN	-	-	?	*	?	-
135-88-6	N-	PHENYL-2-NAPHTHYLAMINE	-	-	-	*	-	-
148-82-3	-	PHENYLALANINE, 4BIS(2-CHLOROETHYL)AMINOL]	1	-	-	?	*	-
193-39-5	1,10-(1,2	PHENYLENE)PYRENE	100	-	-	?	*	-
106-50-3	P-	PHENYLENEDIAMINE	-	-	-	*	-	-
100-63-0	-	PHENYLHYDRAZINE	-	-	-	*	-	-
59-88-1	-	PHENYLHYDRAZINE HYDROCHLORIDE	1	1000/10000	*	-	-	*
62-38-4	-	PHENYLMERCURIC ACETATE	100	-	?	-	*	-
62-38-4	-	PHENYLMERCURY ACETATE	100	500/10000	*	-	?	-
90-43-7	2-	PHENYLPHENOL	-	-	-	*	-	-
638-21-1	-	PHENYLPHOSPHINE	-	-	-	*	-	-
2097-19-0	-	PHENYLSILATRANE	1	100/10000	*	-	-	dh
103-85-5	-	PHENYLTHIOUREA	100	100/10000	*	-	?	-
103-85-5	N-	PHENYLTHIOUREA	100	-	?	-	*	-
57-41-0	-	PHENYTON	-	-	-	*	-	-
630-93-3	-	PHENYTON, SODIUM SALT OF	-	-	-	*	-	-
298-02-2	-	PHORATE	10	10	*	*	-	-
4104-14-7	-	PHOSACETIM	1	100/10000	*	-	-	*
947-02-4	-	PHOSFOLAN	1	100/10000	*	-	-	*
75-44-5	-	PHOSCENE	10	10	*	*	*	1
732-11-6	-	PHOSMET	1	10/10000	*	-	-	*
13171-21-8	-	PHOSPHAMIDON	1	100	*	-	-	*
7803-51-2	-	PHOSPHINE	100	500	*	*	-	-
2665-30-7	-	PHOSPHONOTHIOIC ACID, METHYL-, O-(4-NITROPHENYL) O-PHENYL ESTER	1	500	*	-	-	*
2703-13-1	-	PHOSPHONOTHIOIC ACID, METHYL-, O-ETHYL O-(4-(METHYLTHIO)PHENYL) ESTER	1	500	*	-	-	*
50782-69-9	-	PHOSPHONOTHIOIC ACID, METHYL-, S-(2-IBIS-	1	100	*	-	-	*
7864-38-2	-	PHOSPHORIC ACID	5000	-	-	*	*	-
6923-22-4	-	PHOSPHORIC ACID DIMETHYL 1-METHYL-3-(METHYLAMINO)-3-OXO-1-PROPENYLESTR	-	-	?	*	-	-

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
311-45-5	-	PHOSPHORIC ACID, DIETHYL P- NITROPHENYL ESTER	100	-	-	-	-	-
3254-63-5	-	PHOSPHORIC ACID, DIMETHYL 4- (METHYLTHIO)PHENYL ESTER	1	500	-	-	-	-
7446-27-7	-	PHOSPHORIC ACID, LEAD SALT	1	-	-	?	-	-
298-02-2	-	PHOSPHORODITHIOIC ACID,O,O-DIETHYL S- (ETHYLTHIO) METHYL ESTER	10	-	?	?	-	-
3288-58-2	-	PHOSPHORODITHIOIC ACID,O,O-DIETHYL S- METHYLESTER	5000	-	-	-	-	-
60-51-5	-	PHOSPHORODITHIOIC ACID,O,O-DIMETHYL S-(2(METHYLAMINO)-2-OXOETHYL)ESTER	10	-	?	-	-	-
55-91-4	-	PHOSPHOROFUORIDIC ACID, BIS(1- METHYLETHYL) ESTER	100	-	?	-	-	-
2587-90-8	-	PHOSPHOROTHIOIC ACID, O,O-DIMETHYL- S-2-METHYLTHIO) ETHYL ESTER	1	50L	-	-	-	cag
56-38-2	-	PHOSPHOROTHIOIC ACID,O,O-DIETHYL O- (P-NITROPHENYL) ESTER	10	-	?	?	?	-
297-97-2	-	PHOSPHOROTHIOIC ACID,O,O-DIETHYL O- PYRAZINYL ESTER	100	-	?	-	-	-
52-85-7	-	PHOSPHOROTHIOIC ACID,O,O-DIMETHYL O- (P-[(DIMETHYLAMINO)...(SEE FAMPHUR)	1000	-	-	-	-	-
7723-14-0	-	PHOSPHOROUS (YELLOW OR WHITE)	-	-	?	?	?	-
7723-14-0	-	PHOSPHORUS	1	100	-	-	-	bh
7723-14-0	-	PHOSPHORUS (YELLOW)	-	-	?	-	?	-
10025-87-3	-	PHOSPHORUS OXYCHLORIDE	1000	500	-	-	-	d
10026-13-8	-	PHOSPHORUS PENTACHLORIDE	1	500	-	-	-	be
1314-80-3	-	PHOSPHORUS PENTASULFIDE	100	-	-	-	-	-
1314-56-3	-	PHOSPHORUS PENTOXIDE	1	10	-	-	-	be
1314-80-3	-	PHOSPHORUS SULFIDE	100	-	-	?	-	-
7719-12-2	-	PHOSPHORUS TRICHLORIDE	1000	1000	-	-	-	-
-	-	PHTHALATE ESTERS	-	-	-	-	-	-
85-44-9	-	PHTHALIC ANHYDRIDE	5000	-	-	-	-	-
626-17-5	M	PHTHALODINITRILE	-	-	-	-	-	-
57-47-6	-	PHYSOSTIGMINE	1	100/10000	-	-	-	-
57-64-7	-	PHYSOSTIGMINE, SALICYLATE (1:1)	1	100/10000	-	-	-	-
1918-02-1	-	PICLORAM	-	-	-	-	-	-
109-06-8	2-	PICOLINE	5000	-	-	-	-	-
88-89-1	-	PICRIC ACID	-	-	-	-	-	-
124-87-8	-	PICROTOXIN	1	500/10000	-	-	-	-
83-26-1	-	PINDONE	-	-	-	-	-	-
142-64-3	-	PIPERAZINE DIHYDROCHLORIDE	-	-	-	-	-	-
110-89-4	-	PIPERIDINE	1	1000	-	-	-	-
100-75-4	-	PIPERIDINE,1-NITROSO-	10	-	-	?	?	-
23505-41-1	-	PIRIMIFOS-ETHYL	1	1000	-	-	-	-
-	-	PLASTER OF PARIS	-	-	-	-	-	-
7440-06-4	-	PLATINUM, METAL	-	-	-	-	-	-
7440-06-4	-	PLATINUM, SOLUBLE SALTS	-	-	-	-	-	-
78-00-2	-	PLUMBANE, TETRAETHYL-	10	-	-	?	?	-
89536-65-1	-	POLYBROMINATED BIPHENYLS	-	-	-	-	-	-
-	-	POLYBROMINATED BIPHENYLS (PBBS) (SEE REGULATION FOR DEFINITION)	-	-	-	-	-	-
1336-36-3	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
11096-82-5	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
11097-69-1	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	?	-	-
11104-28-2	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
11141-16-5	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
12672-29-6	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
12674-11-2	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	-	-	-
53469-21-9	-	POLYCHLORINATED BIPHENYLS (PCBS)	1	-	-	?	-	-
8001-35-2	-	POLYCHLORINATED CAMPHENE	-	-	-	?	?	-
-	-	POLYNUCLEAR AROMATIC HYDROCARBONS	-	-	-	-	-	-
-	-	POLYTETRAFLUOROETHYLENE	-	-	-	-	-	-
3564-09-8	-	DECOMPOSITION PRODUCTS	-	-	-	-	-	-
3761-53-3	-	PONCEAU 3R	-	-	-	-	-	-
65997-15-1	-	PONCEAU MX	-	-	-	-	?	-
7784-41-0	-	POTASSIUM ARSENATE	1	-	-	-	-	-
10124-50-2	-	POTASSIUM ARSENITE	1	500/10000	-	-	-	d

CAS or Other I.D. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
7778-50-9	- POTASSIUM BICHROMATE	10	-	-	-	-	*	-
7789-00-6	- POTASSIUM CHROMATE	10	-	-	-	-	*	-
151-50-8	- POTASSIUM CYANIDE	10	100	*	*	-	*	b
1310-68-3	- POTASSIUM HYDROXIDE	1000	-	-	*	-	*	-
7722-64-7	- POTASSIUM PERMANGANATE	100	-	-	-	-	*	-
506-61-6	- POTASSIUM SILVER CYANIDE	1	500	*	-	-	*	b
671-16-9	- PROCARBAZINE	-	-	-	*	-	-	-
366-70-1	- PROCARBAZINE HYDROCHLORIDE	-	-	-	*	-	-	-
57-83-0	- PROGESTERONE	-	-	-	*	-	-	-
2631-37-0	- PROMECARB	1	500/10000	*	-	-	-	ab
23950-58-6	- PRONAMIDE	5000	-	-	-	-	*	-
116-06-3	- PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-((METHYLAMINO)CARBONYL)OXIME	1	-	?	-	-	*	-
107-10-2	1- PROPANAMINE	5000	-	-	-	-	*	-
142-84-7	1- PROPANAMINE, N-PROPYL	5000	-	-	-	-	*	-
621-64-7	1-PROPANAMINE, N-NITROSO-N-PROPYL	10	-	-	?	?	*	-
74-98-6	- PROPANE	-	-	-	*	*	-	-
1120-71-4	- PROPANE SULTONE	-	-	-	*	*	?	-
1120-71-4	1,3- PROPANE SULTONE	10	-	-	*	?	*	-
96-12-8	- PROPANE, 1,2-DIBROMO-3-CHLORO	1	-	-	?	?	*	-
108-60-1	- PROPANE, 2,2'-OXYBIS(2-CHLORO-	1000	-	-	-	?	*	-
79-46-9	- PROPANE, 2-NITRO-	10	-	-	?	?	*	-
109-77-3	- PROPANEDINITRILE	1000	-	?	-	-	*	-
107-12-0	- PROPANENITRILE	10	-	?	-	-	*	-
75-86-5	- PROPANENITRILE, 2-HYDROXY-2-METHYL-	10	-	?	-	-	*	-
542-76-7	- PROPANENITRILE, 3-CHLORO-	1000	-	?	-	-	*	-
55-63-0	1,2,3- PROPANETRIOL, TRINITRATE-	10	-	-	?	?	*	-
126-72-7	1- PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1)	10	-	-	?	?	*	-
78-83-1	1- PROPANOL, 2-METHYL-	5000	-	-	?	-	*	-
67-64-1	2- PROPANONE	5000	-	-	?	?	*	-
598-31-2	2- PROPANONE, 1-BROMO-	1000	-	-	-	-	*	-
712-35-8	- PROPARGITE	10	-	-	-	-	*	-
19-7	- PROPARGYL ALCOHOL	1000	-	-	*	-	*	-
96-7	- PROPARGYL BROMIDE	1	10	*	-	-	-	e
107-18-6	2- PROPEN-1-OL	100	-	?	?	-	-	-
107-02-8	2- PROPENAL	1	-	?	?	?	*	-
79-06-1	2- PROPENAMIDE	5000	-	?	?	?	*	-
1888-71-7	1- PROPENE, 1,1,2,3,3,3-HEXACHLORO-	1000	-	-	-	-	*	-
542-75-6	PROPENE, 1,3-DICHLORO	100	-	-	?	?	*	-
107-13-1	2- PROPENENITRILE	100	-	?	?	?	*	-
126-98-7	2- PROPENENITRILE, 2-METHYL	1000	-	?	?	-	*	-
79-10-7	2- PROPENOIC ACID	5000	-	-	?	?	*	-
97-63-2	2- PROPENOIC ACID, 2-METHYL-, ETHYL ESTER	1000	-	-	-	-	*	-
80-62-6	2- PROPENOIC ACID, 2-METHYL-, METHYL ESTER	1000	-	-	?	?	*	-
140-88-5	2- PROPENOIC ACID, ETHYL ESTER	1000	-	-	?	?	*	-
57-57-8	BETA- PROPIOLACTONE	1	500	*	*	*	-	e
123-36-6	- PROPIONALDEHYDE	-	-	-	-	*	-	-
79-09-4	- PROPIONIC ACID	5000	-	-	*	-	*	-
93-72-1	- PROPIONIC ACID, 2-(2,4,5- TRICHLOROPHENOXY)-	100	-	-	-	-	*	-
123-62-6	- PROPIONIC ANHYDRIDE	5000	-	-	-	-	*	-
107-12-0	- PROPIONITRILE	10	500	*	-	-	?	-
542-76-7	- PROPIONITRILE, 3-CHLORO-	1000	1000	*	-	-	?	-
70-69-9	- PROPIOPHENONE, 4-AMINO	1	100/10000	*	-	-	-	eg
114-28-1	- PROPOXUR	-	-	-	*	*	-	-
109-60-4	N- PROPYL ACETATE	-	-	-	*	-	-	-
71-23-8	- PROPYL ALCOHOL	-	-	-	*	-	-	-
109-61-5	- PROPYL CHLOROFORMATE	1	500	*	-	-	-	e
627-13-4	N- PROPYL NITRATE	-	-	-	*	-	-	-
107-10-6	N- PROPYLAMINE	5000	-	-	-	-	*	-
115-07-1	- PROPYLENE	-	-	-	*	?	-	-
115-07-1	- PROPYLENE (PROPENE)	-	-	-	?	*	-	-
78-87-5	- PROPYLENE DICHLORIDE	1000	-	-	-	?	*	-
6423-43-4	- PROPYLENE GLYCOL DINITRATE (PGDN)	-	-	-	*	-	-	-
107-98-2	- PROPYLENE GLYCOL MONOMETHYL ETHER	-	-	-	*	-	-	-
75-56-9	- PROPYLENE OXIDE	100	10000	*	*	*	*	1
75-55-8	- PROPYLENEIMINE	1	10000	*	*	*	*	d
55-8	1,2- PROPYLENIMINE	1	-	?	?	?	*	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
51-52-5	-	PROPYLTHIOURACIL	-	-	-	-	-	-
107-19-7	2-	PROPYN-1-OL	1000	-	-	?	-	-
2275-18-5	-	PROTHOATE	1	100/10000	-	-	-	e
129-00-0	-	PYRENE	5000	1000/10000	-	-	-	c
121-21-1	-	PYRETHRINS	1	-	-	-	-	-
121-29-9	-	PYRETHRINS	1	-	-	-	-	-
8003-34-7	-	PYRETHRINS	1	-	-	?	-	-
8003-34-7	-	PYRETHRUM	-	-	-	-	?	-
504-24-5	4-	PYRIDINAMINE	1000	-	?	-	-	-
110-86-1	-	PYRIDINE	1000	-	-	-	-	-
54-11-5	-	PYRIDINE, (S)-3-(1-METHYL-2-PYRROLIDINYL), AND SALTS	100	-	?	?	-	-
109-06-8	-	PYRIDINE, 2-METHYL-	5000	-	-	-	-	-
140-76-1	-	PYRIDINE, 2-METHYL-5-VINYL-	1	500	-	-	-	e
91-80-5	-	PYRIDINE, 2-[(2-(DIMETHYLAMINO)ETHYL)-2-THENYLAMINO]-	5000	-	-	-	-	-
504-24-5	-	PYRIDINE, 4-AMINO-	1000	500/10000	-	-	?	h
1124-33-0	-	PYRIDINE, 4-NITRO-, 1-OXIDE	1	500/10000	-	-	-	e
100-75-4	-	PYRIDINE, HEXAHYDRO-N-NITROSO-	1	-	-	?	?	-
66-75-1	2,4-(1H,3H)-	PYRIMIDINEDIONE, 5-BIS(2-CHLOROETHYLAMINO)	10	-	-	?	-	-
56-04-2	4(1H)-	PYRIMIDINONE, 2,3-DIHYDRO-6-METHYL-2-THIOXO-	10	-	-	?	-	-
53558-25-1	-	PYRIMINIL	1	100/10000	-	-	-	eh
107-49-3	-	PYROPHOSPHORIC ACID, TETRAETHYL ESTER	10	-	?	?	-	-
930-55-2	-	PYRROLIDINE, 1-NITROSO	1	-	-	?	-	-
14808-60-7	-	QUARTZ, RESPIRABLE	-	-	-	-	-	-
14808-60-7	-	QUARTZ, TOTAL DUST	-	-	-	-	-	-
91-22-5	-	QUINOLINE	5000	-	-	-	-	-
106-51-4	-	QUINONE	-	-	-	-	?	-
82-68-8	-	QUINTOZENE	100	-	-	-	-	-
-	-	[PENTACHLORONITROBENZENE]	-	-	-	-	-	-
-	-	RADIONUCLIDES	1	-	-	-	-	✓
50-55-5	-	RESERPINE	5000	-	-	-	-	-
108-46-3	-	RESORCINOL	5000	-	-	-	-	-
7440-16-6	-	RHODIUM, INSOLUBLE COMPOUNDS	-	-	-	-	-	-
7440-16-6	-	RHODIUM, METAL (FUME AND DUSTS)	-	-	-	-	-	-
7440-16-6	-	RHODIUM, SOLUBLE COMPOUNDS	-	-	-	-	-	-
7440-16-6	-	RHODIUM, SOLUBLE SALTS	-	-	-	-	-	-
299-84-3	-	RONNEL	-	-	-	-	-	-
-	-	ROBIN CORE SOLDER PYROLYSIS PRODUCTS, AS FORMALDEHYDE	-	-	-	-	-	-
83-79-4	-	BOTENONE (COMMERCIAL)	-	-	-	-	-	-
-	-	ROUGE (IRON (III) OXIDE)	-	-	-	-	-	-
8030-30-6	-	RUBBER SOLVENT (NAPHTHA)	-	-	-	-	-	-
81-07-2	-	SACCHARIN (MANUFACTURING) (SEE REGULATION) (1,2-BENZISOTHAZOL-3(2H)-O	-	-	-	?	?	-
81-07-2	-	SACCHARIN (SACCHARINE)	-	-	-	-	-	-
81-07-2	-	SACCHARIN AND SALTS	100	-	-	?	?	-
94-59-7	-	SAFROLE	100	-	-	-	-	-
14167-18-1	-	SALCOMINE	1	500/10000	-	-	-	e
107-44-5	-	SARIN	1	10	-	-	-	eh
7783-00-8	-	SELENIOUS ACID	10	1000/10000	-	-	-	-
7782-49-2	-	SELENIUM	100	-	-	-	-	-
7782-49-2	-	SELENIUM COMPOUNDS	-	-	-	-	?	-
-	-	SELENIUM COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	-	-
7746-08-4	-	SELENIUM DIOXIDE	10	-	-	-	-	-
7488-56-4	-	SELENIUM SULFIDE	10	-	-	-	-	-
7488-56-4	-	SELENIUM SULFIDE SES2	10	-	-	-	-	-
7783-79-1	-	SELENIUM HEXAFLUORIDE	-	-	-	-	-	-
7746-08-4	-	SELENIUM OXIDE	10	-	-	-	-	-
7791-23-3	-	SELENIUM OXYCHLORIDE	1	500	-	-	-	e
7446-34-6	-	SELENIUM SULFIDE (SES)	-	-	-	-	-	-
630-10-4	-	SELENOUREA	1000	-	-	-	-	-
563-41-7	-	SEMICARBAZIDE HYDROCHLORIDE	1	1000/10000	-	-	-	e
115-02-6	L-	SERINE, DIAZOACETATE (ESTER)	1	-	-	?	-	-

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136-78-7	-	SESONE	-	-	-	•	-	-	-
-	-	SHALE OILS, BITUMENS	-	-	-	•	-	-	-
-	-	SHALE OILS, COMMERCIAL BLENDS	-	-	-	•	-	-	-
-	-	SHALE OILS, CRUDE-DISTILLATION FRACTIONS	-	-	-	•	-	-	-
-	-	SHALE OILS, CRUDE-HIGH TEMPERATURE AND FRACTIONS	-	-	-	•	-	-	-
-	-	SHALE OILS, CRUDE-LOW TEMPERATURE	-	-	-	•	-	-	-
3037-72-7	-	SILANE, (4-AMINOBUTYL)DIETHOXYMETHYL-	1	1000	-	-	-	-	e
7631-86-9	-	SILICA, CRYSTALLINE	-	-	-	•	-	-	-
63231-67-4	-	SILICA, GEL	-	-	-	•	-	-	-
10193-36-9	-	SILICA, PRECIPITATED	-	-	-	•	-	-	-
7631-86-9	-	SILICA, SiO ₂ , AMORPHOUS	-	-	-	•	-	-	-
60676-86-0	-	SILICA, SiO ₂ , AMORPHOUS-SILICA, FUSED	-	-	-	•	-	-	-
7440-21-3	-	SILICON	-	-	-	•	-	-	-
409-21-2	-	SILICON CARBIDE	-	-	-	•	-	-	-
7803-62-6	-	SILICON TETRAHYDRIDE (SILANE)	-	-	-	•	-	-	-
7440-22-4	-	SILVER	1000	-	-	•	-	-	-
-	-	SILVER COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	•	-	-	-
506-64-9	-	SILVER CYANIDE	1	-	-	-	-	•	-
7761-88-8	-	SILVER NITRATE	1	-	-	-	-	•	-
7440-22-4	-	SILVER, SOLUBLE COMPOUNDS	-	-	-	•	?	?	-
93-72-1	-	SILVEX	100	-	-	-	-	•	-
-	-	SOAPSTONE	-	-	-	•	-	-	-
7440-23-5	-	SODIUM	10	-	-	-	-	•	-
7631-89-2	-	SODIUM ARSENATE	1	1000/10000	•	•	-	•	d
7784-46-6	-	SODIUM ARSENITE	1	500/10000	•	•	-	•	d
26628-22-8	-	SODIUM AZIDE	1000	-	?	-	-	•	-
26628-22-8	-	SODIUM AZIDE (Na(N ₃))	1000	500	•	?	-	?	b
588-01-9	-	SODIUM BICHROMATE	10	-	-	-	-	•	-
733-83-1	-	SODIUM BIFLUORIDE	100	-	-	-	-	•	-
7631-90-6	-	SODIUM BISULFITE	5000	-	-	•	-	•	-
124-65-2	-	SODIUM CACODYLATE	1	100/10000	•	-	-	-	e
7775-11-3	-	SODIUM CHROMATE	10	-	-	-	-	•	-
143-33-9	-	SODIUM CYANIDE	10	-	?	•	-	•	-
143-33-9	-	SODIUM CYANIDE (Na(CN))	10	100	•	?	-	?	b
25165-30-0	-	SODIUM DODECYLBENZENE SULFONATE	1000	-	-	-	-	•	-
7681-49-4	-	SODIUM FLUORIDE	1000	-	-	-	-	•	-
62-74-8	-	SODIUM FLUOROACETATE	10	10/10000	•	•	-	?	-
16721-80-6	-	SODIUM HYDROSULFIDE	5000	-	-	-	-	•	-
1310-73-2	-	SODIUM HYDROXIDE	1000	-	-	•	?	•	-
7681-52-9	-	SODIUM HYPOCHLORITE	100	-	-	-	-	•	-
10022-70-6	-	SODIUM HYPOCHLORITE	100	-	-	-	-	•	-
7681-57-4	-	SODIUM METABISULFITE	-	-	-	•	-	-	-
124-41-4	-	SODIUM METHYLATE	1000	-	-	-	-	•	-
7632-00-0	-	SODIUM NITRITE	100	-	-	-	-	•	-
7558-79-4	-	SODIUM PHOSPHATE, DIBASIC	5000	-	-	-	-	•	-
10039-32-4	-	SODIUM PHOSPHATE, DIBASIC	5000	-	-	-	-	•	-
10140-65-6	-	SODIUM PHOSPHATE, DIBASIC	5000	-	-	-	-	•	-
7601-64-9	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
7758-29-4	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
7785-84-4	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
10101-89-0	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
10124-56-8	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
10361-89-4	-	SODIUM PHOSPHATE, TRIBASIC	5000	-	-	-	-	•	-
128-44-9	-	SODIUM SACCHARIN	-	-	-	•	-	-	-
13410-01-0	-	SODIUM SELENATE	1	100/10000	•	-	-	-	e
7782-82-3	-	SODIUM SELENITE	1000	-	-	-	-	•	-
10102-18-6	-	SODIUM SELENITE	100	100/10000	•	-	-	•	h
10102-20-2	-	SODIUM TELLURITE	1	500/10000	•	-	-	-	e
-	-	SOOTS, TARS AND MINERAL OILS	-	-	-	•	-	-	-
900-95-8	-	STANNANE, ACETOXYTRIPHENYL-	1	500/10000	•	-	-	-	e
9005-25-8	-	STARCH	-	-	-	•	-	-	-
-	-	STEARATES	-	-	-	•	-	-	-
10048-13-2	-	STERICMATOCYSTIN	-	-	-	•	-	-	-
7803-52-3	-	STIBINE	-	-	-	•	-	-	-
8052-41-3	-	STODDARD SOLVENT	-	-	-	•	-	-	-

18883-66-4	-	STREPTOZOTOCIN	1	-	-	•	-	•	-
7789-06-2	-	STRONTIUM CHROMATE	10	-	-	•	-	•	-
357-57-3	-	STRYCHNIDIN-10-ONE, 2,3-DIMETHOXY-	10	-	-	-	-	•	ya
57-24-9	-	STRYCHNIDIN-10-ONE, AND SALTS	10	-	?	?	-	•	-
57-24-9	-	STRYCHNINE	10	100/10000	•	•	-	?	c
57-24-9	-	STRYCHNINE AND SALTS	10	-	?	?	-	•	-
60-41-3	-	STRYCHNINE, SULFATE	1	100/10000	•	-	-	-	e
100-42-5	-	STYRENE	1000	-	-	•	?	•	-
100-42-5	-	STYRENE	-	-	-	•	•	•	-
100-42-5	-	STYRENE (MONOMER)	-	-	-	•	?	?	-
96-09-3	-	STYRENE OXIDE	-	-	-	•	•	-	-
1395-21-7	-	SUBTILISINS (PROTEOLYTIC ENZYMES AS 100% PURE CRYSTALLINE ENZYME)	-	-	-	•	-	-	-
57-50-1	-	SUCROSE	-	-	-	•	-	-	-
98-06-7	-	SULFALLATE	-	-	-	•	-	-	-
3689-24-5	-	SULFOTEP	100	500	-	•	-	?	-
3569-57-1	-	SULFOXIDE, 3-CHLOROPROPYL OCTYL	1	500	•	-	-	-	e
10025-67-9	-	SULFUR CHLORIDE /S2CL2/	-	-	-	•	-	-	-
7446-09-5	-	SULFUR DIOXIDE	1	500	•	•	-	-	aj
2551-62-4	-	SULFUR HEXAFLUORIDE	-	-	-	•	-	-	-
7783-06-4	-	SULFUR HYDRIDE	100	-	?	?	-	•	-
10025-67-9	-	SULFUR MONOCHLORIDE	-	-	-	•	-	-	-
12771-08-3	-	SULFUR MONOCHLORIDE	1000	-	-	-	-	•	-
5714-22-7	-	SULFUR PENTAFLUORIDE	-	-	-	•	-	-	-
1314-80-3	-	SULFUR PHOSPHIDE	100	-	-	?	-	•	-
7488-56-4	-	SULFUR SELENIDE	1	-	-	-	-	•	-
7783-60-0	-	SULFUR TETRAFLUORIDE	1	100	•	•	-	-	e
7446-11-9	-	SULFUR TRIOXIDE	1	100	•	-	-	-	ba
7664-93-9	-	SULFURIC ACID	1000	1000	•	•	•	•	-
8014-96-7	-	SULFURIC ACID	1000	-	-	-	-	•	-
77-78-1	-	SULFURIC ACID, DIMETHYL ESTER	100	-	?	?	?	•	-
7446-18-6	-	SULFURIC ACID, THALLIUM(I) SALT	100	-	?	-	-	•	-
10031-58-1	-	SULFURIC ACID, THALLIUM(I) SALT	100	-	?	-	-	•	-
2699-79-8	-	SULFURYL FLUORIDE	-	-	-	•	-	-	-
38400-43-2	-	SULPROFOS	-	-	-	•	-	-	-
93-76-5	2,4,5	T	1000	-	-	-	-	-	-
93-76-5	2,4,5	T ACID	1000	-	-	?	-	•	-
1319-72-8	2,4,5	T AMINES	5000	-	-	-	-	•	-
2008-46-0	2,4,5	T AMINES	5000	-	-	-	-	•	-
3813-14-7	2,4,5	T AMINES	5000	-	-	-	-	•	-
6369-96-6	2,4,5	T AMINES	5000	-	-	-	-	•	-
6369-97-7	2,4,5	T AMINES	5000	-	-	-	-	•	-
93-79-8	2,4,5	T ESTERS	1000	-	-	-	-	•	-
1928-47-8	2,4,5	T ESTERS	1000	-	-	-	-	•	-
2545-59-7	2,4,5	T ESTERS	1000	-	-	-	-	•	-
25168-15-4	2,4,5	T ESTERS	1000	-	-	-	-	•	-
61792-07-2	2,4,5	T ESTERS	1000	-	-	-	-	•	-
13580-99-1	2,4,5	T SALTS	1000	-	-	-	-	•	-
77-81-6	-	TABUN	1	10	•	-	-	-	cah
14807-96-6	-	TALC (FIBROUS)	-	-	-	•	-	-	-
14807-96-6	-	TALC (NON-ASBESTOS FORM)	-	-	-	•	-	-	-
7440-25-7	-	TANTALUM	-	-	-	•	-	-	-
72-54-8	-	TDE	1	-	-	-	-	•	-
13494-80-9	-	TELLURIUM	1	500/10000	•	?	-	-	e
13494-80-9	-	TELLURIUM AND COMPOUNDS	-	-	?	•	-	-	-
7783-80-4	-	TELLURIUM HEXAFLUORIDE	1	100	•	•	-	-	ak
3383-96-8	-	TEMEPHOS	-	-	-	•	-	-	-
107-49-3	-	TEPP	10	100	•	•	-	?	-
13071-79-9	-	TERBUFOS	1	100	•	-	-	-	eb
100-21-0	-	TEREPHTHALIC ACID	-	-	-	-	•	-	-
28140-60-3	-	TERPHENYLS	-	-	-	-	•	-	-
61788-32-7	-	TERPHENYLS, HYDROGENATED	-	-	-	-	•	-	-
58-22-0	-	TESTOSTERONE	-	-	-	-	•	-	-
-	-	TESTOSTERONE AND ESTERS	-	-	-	-	•	-	-
315-37-7	-	TESTOSTERONE OENANTHATE	-	-	-	-	•	-	-
57-85-2	-	TESTOSTERONE PROPIONATE	-	-	-	-	•	-	-
76-12-0	1,1,2,2	TETRACHLORO-1,2-DIFLUOROETHANE	-	-	-	-	•	-	-
76-11-9	1,1,1,2	TETRACHLORO-2,2-DIFLUOROETHANE	-	-	-	-	•	-	-
95-94-3	1,2,4,5	TETRACHLOROBENZENE	5000	-	-	-	-	•	-
1746-01-6	-	TETRACHLORODIBENZO-DIOXIN	-	-	-	-	-	?	-
1746-01-6	2,3,7,8	TETRACHLORODIBENZO-P-DIOXIN(TCDD)	1	-	-	?	-	•	-

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-	-	TETRACHLORODIBENZO-PARA-DIOXIN	-	-	-	-	-	-	-
79-34-5	1,1,2,2-	TETRACHLOROETHANE	100	-	-	?	-	-	-
830-20-6	1,1,1,2-	TETRACHLOROETHANE	100	-	-	-	-	-	-
127-18-4	-	TETRACHLOROETHENE	100	-	-	?	?	-	-
127-18-4	-	TETRACHLOROETHYLENE	100	-	-	?	?	-	-
127-18-4	-	TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	100	-	-	-	-	-	-
1335-88-2	-	TETRACHLORONAPHTHALENE	-	-	-	-	-	-	-
58-90-2	2,3,4,6-	TETRACHLOROPHENOL	10	-	-	-	-	-	-
961-11-5	-	TETRACHLORVINPHOS (PHOSPHORIC ACID, 2-CHLORO-1-(2,4,6- TRICHLOROPHENYL)	-	-	-	-	-	-	-
78-00-2	-	TETRAETHYL LEAD	10	100	-	-	-	-	cd
107-49-3	-	TETRAETHYL PYROPHOSPHATE	10	-	-	?	?	-	-
3689-24-5	-	TETRAETHYLDITHIOPYROPHOSPHATE	100	-	-	?	-	-	-
597-84-8	-	TETRAETHYL TIN	1	100	-	-	-	-	cs
109-99-9	-	TETRAHYDROFURAN	1000	-	-	-	-	-	-
75-74-1	-	TETRAMETHYL LEAD	1	100	-	-	-	-	cm
3333-52-6	-	TETRAMETHYLSUCCINONITRILE	-	-	-	-	-	-	-
509-14-8	-	TETRA-NITROMETHANE	10	500	-	-	-	-	-
757-58-4	-	TETRA-PHOSPHORIC ACID, HEXAETHYL ESTER	100	-	-	-	-	-	-
7722-88-5	-	TETRASODIUM PYROPHOSPHATE	-	-	-	-	-	-	-
479-45-8	-	TETRYL	-	-	-	-	-	-	-
1314-32-5	-	THALLIC OXIDE	100	-	-	-	-	-	-
7440-28-0	-	THALLIUM	1000	-	-	-	-	-	-
-	-	THALLIUM COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	-	-	-
10031-59-1	-	THALLIUM SULFATE	100	100/10000	-	-	-	?	h
563-68-8	-	THALLIUM(I) ACETATE	100	-	-	-	-	-	-
6533-73-9	-	THALLIUM(I) CARBONATE	100	-	-	?	-	-	-
7791-12-0	-	THALLIUM(I) CHLORIDE	100	-	-	?	-	-	-
10102-45-1	-	THALLIUM(I) NITRATE	100	-	-	-	-	-	-
2039-52-0	-	THALLIUM(I) SELENIDE	1000	-	-	-	-	-	-
/446-18-6	-	THALLIUM(I) SULFATE	100	-	-	?	-	-	-
10031-59-1	-	THALLIUM(II) SULFATE	100	-	-	?	-	-	-
1314-32-5	-	THALLIUM(III) OXIDE	100	-	-	-	-	-	-
7440-28-0	-	THALLIUM, SOLUBLE COMPOUNDS	-	-	-	-	?	?	-
6533-73-9	-	THALLOUS CARBONATE	100	100/10000	-	-	-	?	ch
7791-12-0	-	THALLOUS CHLORIDE	100	100/10000	-	-	-	?	ch
2757-18-8	-	THALLOUS MALONATE	1	100/10000	-	-	-	-	cmh
7446-18-6	-	THALLOUS SULFATE	100	100/10000	-	-	-	?	-
62-55-5	-	THIOACETAMIDE	10	-	-	-	-	-	-
96-59-5	4,4'-	THIOBIS (6-TERT-BUTYL-M-CRESOL)	-	-	-	-	-	-	-
2231-57-4	-	THIOCARBAZIDE	1	1000/10000	-	-	-	-	e
139-85-1	4,4'-	THIODIANILINE	-	-	-	-	-	-	-
39196-18-4	-	THIOFANOX	100	100/10000	-	-	-	-	-
68-11-1	-	THIOGLYCOLIC ACID	-	-	-	-	-	-	-
74-93-1	-	THIOMETHANOL	100	-	-	?	?	-	-
541-53-7	-	THIOMIDODICARBONIC DIAMIDE	100	-	-	?	-	-	-
297-97-2	-	THIONAZIN	100	500	-	-	-	?	-
7719-09-7	-	THIONYL CHLORIDE	-	-	-	-	-	-	-
108-98-5	-	THIOPHENOL	100	500	-	-	?	-	-
79-19-6	-	THIOSEMICARBAZIDE	100	100/10000	-	-	-	-	-
62-56-6	-	THIOUREA	10	-	-	-	-	-	-
5344-82-1	-	THIOUREA, (2-CHLOROPHENYL)-	100	100/10000	-	-	-	-	-
614-78-8	-	THIOUREA, (2-METHYLPHENYL)-	1	500/10000	-	-	-	-	e
86-88-4	-	THIOUREA, 1-NAPHTHALENYL-	100	-	-	?	?	-	-
103-85-5	-	THIOUREA, PHENYL-	100	-	-	?	-	-	-
137-26-8	-	THIRAM	10	-	-	-	-	-	-
1314-20-1	-	THORIUM DIOXIDE	-	-	-	-	-	-	-
7440-31-5	-	TIN OXIDE AND INORGANIC COMPOUNDS EXCEPT SNH4	-	-	-	-	-	-	-
7440-31-5	-	TIN, INORGANIC COMPOUNDS, EXCEPT OXIDES	-	-	-	-	-	-	-
7440-31-5	-	TIN, METAL	-	-	-	-	-	-	-
7440-31-5	-	TIN, ORGANIC COMPOUNDS	-	-	-	-	-	-	-
13463-67-7	-	TITANIUM DIOXIDE	-	-	-	-	-	-	-
7550-45-0	-	TITANIUM TETRACHLORIDE	1	100	-	-	-	-	e
119-93-7	O-	TOLIDINE	-	-	-	-	?	?	-
108-88-3	-	TOLUENE	1000	-	-	-	-	-	-
84-84-9	-	TOLUENE 2,4-DIISOCYANATE	100	500	-	-	-	?	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
91-08-7	-	100	100	*	*	*	?	-
91-08-7	-	100	-	?	?	?	*	-
584-84-9	-	100	-	?	?	?	*	-
28471-62-5	-	100	-	-	?	-	*	-
28471-62-5	-	-	-	-	*	*	?	-
95-80-7	-	10	-	-	?	?	*	-
496-72-0	-	10	-	-	-	-	*	-
823-40-5	-	10	-	-	-	-	*	-
25378-45-8	-	10	-	-	-	?	*	-
96-53-4	O.	100	-	-	*	*	*	-
106-49-0	P.	100	-	-	*	-	*	-
108-44-1	M.	-	-	-	*	-	-	-
636-21-5	O.	100	-	-	*	*	*	-
8001-35-2	-	1	-	?	*	*	*	-
8001-35-2	O.	1	-	?	?	?	*	-
93-72-1	2,4,5	100	-	-	-	-	*	-
32534-95-5	2,4,5	100	-	-	-	-	*	-
14567-73-8	-	-	-	-	*	-	-	-
-	-	-	-	-	*	-	-	-
1031-47-6	-	1	500/10000	*	-	-	-	*
68-76-8	-	-	-	-	?	*	-	-
24017-47-8	-	1	500	*	-	-	-	*
61-82-5	1H-1,2,4	10	-	-	?	-	*	-
126-73-8	-	-	-	-	*	-	-	-
52-68-6	-	100	-	-	-	?	*	-
52-68-6	-	100	-	-	-	*	*	-
1556-25-4	-	1	100	*	-	-	-	*
27137-85-5	-	1	500	*	-	-	-	*
76-13-1	1,1,2	-	-	-	*	?	-	-
76-03-9	-	-	-	-	*	-	-	-
76-02-8	-	1	500	*	-	-	-	*
120-82-1	1,2,4	100	-	-	*	*	*	-
71-55-6	1,1,1	1000	-	-	?	?	*	-
79-00-5	1,1,2	100	-	-	*	*	*	-
71-55-6	1,1,1	-	-	-	?	*	?	-
79-01-6	-	100	-	-	?	?	*	-
79-01-6	-	100	-	-	*	*	*	-
115-21-9	-	1	500	*	-	-	-	eb
75-69-4	-	-	-	-	*	-	?	-
594-42-3	-	100	-	?	?	-	*	-
75-69-4	-	5000	-	-	?	-	*	-
1321-65-9	-	-	-	-	*	-	-	-
327-96-9	-	1	500	*	-	-	-	ak
88-06-2	2,4,6	10	-	-	*	*	*	-
95-95-4	2,4,5	10	-	-	-	*	*	-
609-19-8	3,4,5	10	-	-	-	-	*	-
933-75-5	2,3,6	10	-	-	-	-	*	-
933-75-5	2,3,5	10	-	-	-	-	*	-
15950-86-0	2,3,4	10	-	-	-	-	*	-
25167-82-2	-	10	-	-	-	-	*	-
93-75-5	2,4,5	1000	-	-	?	-	*	-
96-13-5	-	1	500	*	-	-	-	eb
96-16-4	1,2,3	-	-	-	*	-	-	-
15468-32-3	-	-	-	-	*	-	-	-
27323-41-7	-	1000	-	-	-	-	*	-
998-30-1	-	1	500	*	-	-	-	*
121-44-8	-	5000	-	-	*	-	*	-
75-63-8	-	-	-	-	*	-	-	-
1582-09-8	-	-	-	-	-	*	-	-
552-30-7	-	-	-	-	*	-	-	-
95-63-6	1,2,4	-	-	-	-	*	-	-
25551-13-7	-	-	-	-	*	-	-	-

LD. No.

CHEMICAL NAME

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TPQ

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NOTES

121-45-9	-	TRIMETHYL PHOSPHITE	-	-	-	•	-	-	-
75-50-3	-	TRIMETHYLAMINE	100	-	-	•	-	-	-
75-77-4	-	TRIMETHYLCHLOROSILANE	1	1000	-	•	-	-	-
824-11-3	-	TRIMETHYLOLPROPANE PHOSPHITE	1	100/10000	•	-	-	-	eh
1068-45-1	-	TRIMETHYLTIN CHLORIDE	1	500/10000	•	-	-	-	-
99-35-4	SYM-	TRINITROBENZENE	10	-	-	-	-	-	-
118-96-7	2,4,6-	TRINITROTOLUENE	-	-	-	-	-	-	-
78-30-8	-	TRIOETHOCRESYL PHOSPHATE	-	-	-	•	-	-	-
123-63-7	1,3,5-	TRIOXANE, 2,4,6-TRIMETHYL-	1000	-	-	-	-	-	-
603-34-9	-	TRIPHENYL AMINE	-	-	-	•	-	-	-
115-86-6	-	TRIPHENYL PHOSPHATE	-	-	-	•	-	-	-
639-58-7	-	TRIPHENYLTIN CHLORIDE	1	500/10000	•	-	-	-	-
1317-95-9	-	TRIPOLI (SILICA, SiO ₂ , CRYSTALLINE)	-	-	-	•	-	-	-
126-72-7	-	TRIS (2,3-DIBROMOPROPYL) PHOSPHATE	10	-	-	•	-	-	-
555-77-1	-	TRIS(2-CHLOROETHYL)AMINE	1	100	•	-	-	-	eh
68-76-8	-	TRIS(AZIRIDINYL)-PARA-BENZOQUINONE	-	-	-	•	?	-	-
52-24-4	-	TRIS(AZIRIDINYL)-PHOSPHINE SULPHIDE (THIOTPA)	-	-	-	•	-	-	-
82450-06-0	-	TRP-P-1	-	-	-	•	-	-	-
75104-43-7	-	TRP-P-1 ACETATE	-	-	-	•	-	-	-
68808-54-8	-	TRP-P-1 MONOACETATE	-	-	-	•	-	-	-
62450-07-1	-	TRP-P-2	-	-	-	•	-	-	-
72254-58-1	-	TRP-P-2 ACETATE	-	-	-	•	-	-	-
72-57-1	-	TRYPAN BLUE	10	-	-	?	-	•	-
7440-33-7	-	TUNGSTEN AND CEMENTED TUNGSTEN CARBIDE	-	-	-	•	-	-	-
7440-33-7	-	TUNGSTEN, INSOLUBLE COMPOUNDS	-	-	-	•	-	-	-
7440-33-7	-	TUNGSTEN, SOLUBLE COMPOUNDS	-	-	-	•	-	-	-
8008-64-2	-	TURPENTINE	-	-	-	•	-	-	-
66-75-1	-	URACIL MUSTARD	10	-	-	•	-	•	-
7440-66-1	-	URANIUM (NATURAL), INSOLUBLE COMPOUNDS	-	-	-	•	-	-	-
7440-66-1	-	URANIUM (NATURAL), SOLUBLE COMPOUNDS	-	-	-	•	-	-	-
7440-66-1	-	URANYL ACETATE	100	-	-	-	-	•	-
10102-06-4	-	URANYL NITRATE	100	-	-	-	-	•	-
36478-76-9	-	URANYL NITRATE	100	-	-	-	-	•	-
684-93-5	-	UREA, N-METHYL-N-NITROSO	1	-	-	?	?	•	-
759-73-9	-	UREA, N-ETHYL-N-NITROSO	1	-	-	?	?	•	-
-	-	URETHANE	-	-	-	•	-	-	-
51-79-6	-	URETHANE (ETHYL CARBAMATE)	100	-	-	•	•	•	-
110-62-3	N-	VALERALDEHYDE	-	-	-	•	-	-	-
2001-95-8	-	VALINOMYCIN	1	1000/10000	•	-	-	-	eh
7803-55-6	-	VANADIC ACID, AMMONIUM SALT	1000	-	-	-	-	•	-
7440-62-2	-	VANADIUM (FUME OR DUST)	-	-	-	•	-	-	-
1314-62-1	-	VANADIUM (V ₂ O ₅)	-	-	-	?	•	-	?
1314-62-1	-	VANADIUM (V ₂ O ₅), RESPIRABLE DUST AND FUME	-	-	-	?	•	-	?
1314-62-1	-	VANADIUM PENTOXIDE	1000	100/10000	•	•	-	•	-
1314-62-1	-	VANADIUM(V) OXIDE	1000	-	-	?	?	-	-
27774-13-6	-	VANADYL SULFATE	1000	-	-	-	-	•	-
-	-	VEGETABLE OIL MISTS	-	-	-	•	-	-	-
108-05-4	-	VINYL ACETATE	5000	-	-	?	•	•	-
108-05-4	-	VINYL ACETATE MONOMER	5000	1000	•	?	?	?	dj
593-60-2	-	VINYL BROMIDE	-	-	-	•	•	-	-
75-01-4	-	VINYL CHLORIDE	1	-	-	•	•	•	-
100-40-3	-	VINYL CYCLOHEXENE	-	-	-	•	-	-	-
196-87-6	-	VINYL CYCLOHEXENE DIOXIDE	-	-	-	•	-	-	-
25013-15-4	-	VINYL TOLUENE	-	-	-	•	-	-	-
75-35-4	-	VINYLDENE CHLORIDE	100	-	-	•	•	•	-
75-38-7	-	VINYLDENE FLUORIDE	-	-	-	•	•	-	-
81-81-2	-	WARFARIN	100	500/10000	•	-	-	•	-
129-06-6	-	WARFARIN SODIUM	1	100/10000	•	-	-	-	eh
-	-	WELDING FUMES (NO ₂)	-	-	-	•	-	-	-
-	-	WOOD DUST, ALL SOFT AND HARD WOODS	-	-	-	•	-	-	-
95-47-6	O-	XYLENE	1000	-	-	-	•	•	-
106-42-3	P-	XYLENE	1000	-	-	-	•	•	-
106-38-3	M-	XYLENE	1000	-	-	-	•	•	-
1330-20-7	-	XYLENE	-	-	-	-	•	?	-
1330-20-7	-	XYLENE (MIXED ISOMERS)	-	-	-	-	?	•	-
1330-20-7	-	XYLENE (MIXED)	1000	-	-	-	?	?	-

Appendix 2(b)

CAS or Other LD. No.	CHEMICAL NAME	RQ	TPQ	E H S	O S H	T O X I C	C E R C L A	NOTES
1477-55-0	M - XYLENE ALPHA,ALPHA'-DIAMINE	-	-	-	*	-	-	-
1300-71-6	- XYLENOL	1000	-	-	-	-	*	-
1300-73-8	- XYLIDENE	-	-	-	*	-	-	-
87-82-7	2,6-XYLIDINE	-	-	-	-	*	-	-
28347-13-9	- XYLENE DICHLORIDE	1	100/10000	*	-	-	-	a
50-55-5	- YOHIMBAN-16-CARBOXYLIC ACID,11,17-DIMETHOXY-18-... (SEE RESERPINE)	5000	-	-	7	-	*	-
7440-65-5	- YTTRIUM	-	-	-	*	-	-	-
7440-65-5	- YTTRIUM METAL AND COMPOUNDS	-	-	-	*	-	-	-
7440-66-6	- ZINC	1000	-	-	-	?	*	-
7440-66-6	- ZINC (FUME AND DUST)	-	-	-	-	*	?	-
557-34-6	- ZINC ACETATE	1000	-	-	-	-	*	-
14639-97-5	- ZINC AMMONIUM CHLORIDE	5000	-	-	-	-	*	-
14639-98-6	- ZINC AMMONIUM CHLORIDE	5000	-	-	-	-	*	-
52628-25-8	- ZINC AMMONIUM CHLORIDE	1000	-	-	-	-	*	-
39413-47-3	- ZINC BERYLLIUM SILICATE	-	-	-	*	-	-	-
1332-07-6	- ZINC BORATE	1000	-	-	-	-	*	-
7699-45-8	- ZINC BROMIDE	1000	-	-	-	-	*	-
3486-35-9	- ZINC CARBONATE	1000	-	-	-	-	*	-
7646-85-7	- ZINC CHLORIDE	1000	-	-	*	-	*	-
7646-85-7	- ZINC CHLORIDE FUME	-	-	-	*	-	?	-
1103-86-9	- ZINC CHROMATE	-	-	-	*	-	-	-
13530-65-9	- ZINC CHROMATE	-	-	-	*	-	-	-
37300-23-5	- ZINC CHROMATE AS CR	-	-	-	*	-	-	-
-	- ZINC COMPOUNDS (SEE REGULATION FOR DEFINITION)	-	-	-	-	*	*	-
557-21-1	- ZINC CYANIDE	10	-	-	-	-	*	-
7783-49-5	- ZINC FLUORIDE	1000	-	-	-	-	*	-
557-41-5	- ZINC FORMATE	1000	-	-	-	-	*	-
7779-86-4	- ZINC HYDROSULFITE	1000	-	-	-	-	*	-
7779-86-6	- ZINC NITRATE	1000	-	-	-	-	*	-
1314-13-2	- ZINC OXIDE	-	-	-	*	-	-	-
1314-13-2	- ZINC OXIDE DUST	-	-	-	*	-	-	-
1314-13-2	- ZINC OXIDE FUME	-	-	-	*	-	-	-
127-82-2	- ZINC PHENOLSULFONATE	5000	-	-	-	-	*	-
1314-84-7	- ZINC PHOSPHIDE	100	500	*	-	-	*	b
16871-71-9	- ZINC SILICOFLUORIDE	5000	-	-	-	-	*	-
557-06-1	- ZINC STEARATE	-	-	-	*	-	-	-
7733-02-0	- ZINC SULFATE	1000	-	-	-	-	*	-
58270-08-9	- ZINC, DICHLORO(4,4-DIMETHYL-5-III(METHYLAMINO)...)...	1	100/10000	*	-	-	-	a
12122-67-7	- ZINEB (CARBAMODITHIOIC ACID, 1,2-ETHANEDIYLBIS-, ZINC COMPLEX)	-	-	-	-	*	-	-
7440-67-7	- ZIRCONIUM	-	-	-	*	-	-	-
7440-67-7	- ZIRCONIUM COMPOUNDS	-	-	-	*	-	-	-
13748-89-9	- ZIRCONIUM NITRATE	5000	-	-	-	-	*	-
16923-95-8	- ZIRCONIUM POTASSIUM FLUORIDE	1000	-	-	-	-	*	-
14644-61-2	- ZIRCONIUM SULFATE	5000	-	-	-	-	*	-
10028-11-6	- ZIRCONIUM TETRACHLORIDE	5000	-	-	-	-	*	-

Notes

- a-This chemical does not meet acute toxicity criteria. Its TPQ is set at 10,000 pounds.
- b-This material is a reactive solid. The TPQ does not default to 10,000 pounds for non-powder, non-molten, non-solution form.
- c-EPA changed the calculated TPQ and the reader is referred to the Federal Register of April 22, 1987 for further details.
- d-EPA has indicated that the RQ is likely to change when the assessment of potential carcinogenicity and chronic toxicity is completed.
- e-Statutory reportable quantity for purposes of notification under SARA Section 304(a)(2) of the Emergency Planning and Community Right to Know Act.
- f-EPA has indicated that the statutory 1 pound reportable quantity for methyl isocyanate may be adjusted in a future rulemaking action.
- g-New chemicals added that were not part of the original list of 402 substances.
- h-Revised TPQ based on new or re-evaluated toxicity data.
- j-TPQ is revised to its calculated value and does not change due to technical review as in proposed rule.
- k-The TPQ was revised after proposal due to calculation error.
- l-Chemicals on the original list that do not meet the toxicity criteria but because of their high production volume and recognized toxicity are considered chemicals of concern.
- m-Hydrogen Chloride is an extremely hazardous substance for the gas only.
- w-EPA has listed hydrogen peroxide as an extremely hazardous substance in concentrations greater than 52%.

Appendix 2(b)

- †-A dagger indicates that the material is a hazardous waste under RCRA. The entries have been abbreviated in the space available. For a complete description, the reader should refer to the Federal Register of April 4, 1985, September 29, 1986, and August 14, 1989.
- y-A discrepancy occurs between EPA's listing for the hazardous substance and EPA's listing of its regulatory synonym. Please consult the CAS listing for this substance and the original regulation.
- s-This code indicates that the user may wish to compare the final regulations of the Department of Transportation for discharge reporting (see 52 Fed. Reg. 42174, November 21, 1986) and the final regulations of EPA establishing reportable quantities under CERCLA (see 51 Fed. Reg. 34534, September 29, 1986). A difference exists between the reportable quantities established by the two agencies.
- ††-No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 100 micrometers (0.004 inches).
- ‡-Bq's now measured in curies for 1500 radionuclides, see 54 FR 22524, May 24, 1989.

[The next page is Appendix 2(c), Page 151.]

P&W - EH
ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT B
JULY 1989 REV. NO. 1

EXHIBIT B

LIST OF OIL STORAGE FACILITIES

LIST OF OIL STORAGE FACILITIES
PRATT & WHITNEY - EAST HARTFORD PLANT

UNDERGROUND FUEL OIL STORAGE TANKS

<u>P&W I.D./</u> <u>Inv. No.</u>	<u>Location</u>	<u>Installation</u>	<u>Type of Fuel</u>	<u>No. & Capacity(gal)</u>
169	Power House U.G. #6 Oil	1	158,000	
170	Power House U.G. #6 Oil	1	146,000	
156	"F" Bldg.(So.) U.G. #2 Fuel Oil	1	1,000	
EA100	South Tank Farm U.G. Jet Fuel	1	30,000	
EA101	South Tank Farm U.G. Jet Fuel	1	30,000	
EA103	South Tank Farm U.G. Jet Fuel	1	20,000	
EA104	South Tank Farm U.G. Jet Fuel	1	20,000	
EA105	South Tank Farm U.G. Jet Fuel	1	25,000	
EA106	South Tank Farm U.G. Jet Fuel	1	25,000	
EA108	X104 U.G. Jet Fuel	1	1,000	
A1R1	ETAL Tank Farm U.G. Jet Fuel	1	2,000	
A2R1	ETAL Tank Farm U.G. Jet Fuel	1	1,000	
AB10	ETAL Tank Farm U.G. Jet Fuel	1	1,000	
AC11	ETAL Tank Farm U.G. Jet Fuel	1	1,000	
189	"I" Building U.G. Automotive Gas	1	10,000	
190	"I" Building U.G. Diesel Fuel	1	10,000	
192 & 193	Maint. Garage U.G. Automotive Gas	2	10,000 ea.	
187R1	Executive Garage U.G. Automotive Gas	1	5,000	
191	Maint. Garage U.G. Diesel Fuel	1	10,000	
	Airport Tower U.G. Diesel Fuel	1	250	

ABOVEGROUND FUEL STORAGE TANKS

-	Suntan(X-410) A.G. Jet Fuel	2	550 ea.
-	"D" Building(So.) A.G. Diesel Fuel	1	275
-	"E" Building(No.) A.G. Diesel Fuel	1	275
-	ETAL (East) A.G. Diesel Fuel	1	275
-	"H" Building(East) A.G. Diesel Fuel	1	500
-	"K" Building(East) A.G. Diesel Fuel	1	300
-	"K" Tunnel A.G. Diesel Fuel	1	250
-	Linde Area (So.) A.G. Diesel Fuel	2	300 ea.
-	UTC Airport Mobile Jet Fuel	2	4000 ea.
-	Comm. Center A.G. Diesel Fuel	1	250

LIST OF OIL STORAGE FACILITIES (Cont'd)
PRATT & WHITNEY - EAST HARTFORD PLANT

RECLAIMED AND WASTE OIL, CALIBRATING FLUID AND SALVAGE TANKS

<u>P&W I.D./</u> <u>Inv. No.</u>	<u>Location</u>	<u>Installation</u>	<u>Type of Fuel</u>	<u>No. & Capacity (gal)</u>	
A3R1	ETAL Tank Farm	U.G.	Salvage Tank	1	5,000
EC102	South Tank Farm	U.G.	Salvage Jet Fuel	1	10,000
EC108	South Tank Farm	U.G.	Salvage Jet Fuel	1	10,000
ED107	South Tank Farm	U.G.	Calibrating Fluid	1	10,000
EM117	X104	U.G.	Calibrating Fluid	1	1,000
EO119	Concentrated W.T.P.	U.G.	Waste Oil	1	10,000
EN120	Concentrated W.T.P.	U.G.	Waste Oil	1	10,000
EM121	Concentrated W.T.P.	U.G.	Waste Oil	1	10,000
-	Colt St. Treat. Plant	U.G.	Waste Oil	1	3,600
-	North Test Area	A.G.	Salvage Jet Fuel	1	500
-	"I" Building	A.G.	Waste Oil/Solvents	1	500
-	Concentrated W.T.P.	A.G.	Waste Oil	2	12,000 ea.
-	Concentrated W.T.P.	A.G.	Sol. Oil Cooker	1	2,000
-	Concentrated W.T.P.	A.G.	Oil Blend Tank	1	2,000
-	Concentrated W.T.P.	A.G.	Waste Oil Storage	1	1,250
-	Klondike Area	A.G.	Waste Oil (PCB)	2	3,600 ea.
-	X104	A.G.	Salvage Jet Fuel	1	275

MASTER MECHANIC SOLVENTS & PETROLEUM PRODUCTS

EF109	South Tank Farm	U.G.	Perchloroethylene	1	10,000
EG110	South Tank Farm	U.G.	1,1,1-Trichloroethane	1	20,000
ES113	South Tank Farm	U.G.	Varsol Solvent	1	10,000
EM111	South Tank Farm	U.G.	Hydraulic Oil	1	10,000
EH115	South Tank Farm	U.G.	Hydraulic Oil	1	10,000
EK114	South Tank Farm	U.G.	Broaching Oil	1	10,000
EI112	South Tank Farm	U.G.	Mineral Seal Oil	1	10,000

BARREL STORAGE AREAS

Dept. 32	Linde Area	55-gallon Drum Storage Area	3	---
TC X-77	North Test Area	55-gallon Drum Storage Area	1	---
-	Klondike	55-gallon Drum Storage Area	1	---
-	Concentrated W.T.P.	55-gallon Drum Storage Area	1	---

P&W - EH
ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT C
JULY 1989 REV. NO. 1

EXHIBIT C

LIST OF TRANSFORMER FACILITIES

SUMMARY OF OIL-FILLED ELECTRICAL EQUIPMENT

LOCATIONS AND CAPACITIES

<u>SUBSTATION DESIGNATION</u>	<u>SUBSTATION* LOCATION</u>	<u>TOTAL CAPACITY (Gallons)</u>	<u>LARGEST UNIT CAPACITY (Gallons)</u>
0-2R	North Bulk	5280	1320
0-2R	South Bulk	4904	2065
01	A Bldg Mezz	46	46
02	A Bldg Mezz	46	46
03	A Bldg Mezz	91	46
04	A Bldg Mezz	91	46
05	B Bldg Roof	803	190
06	C Bldg Roof	71	46
07	C Bldg Roof	105	80
08	D Bldg Roof	125	80
09	D Bldg Roof	91	46
10	E Bldg Roof	91	46
11	E Bldg Roof	603	400
13	Central Kitchen	52	52
14	F Bldg Roof	91	46
15	F Bldg Roof	91	46
16	Eng Bldg B	50	50
17	H Bldg Roof	125	80
19	H Bldg Roof	622	234
20	H Bldg Roof	622	234
21**	E Bldg Roof	622	234
22**	E Bldg Roof	622	234
23**	H Bldg Roof	622	234
24**	G Bldg Roof	598	234
25	Prod. Test Roof	682	530
26	X Test Near A Crib	125	80
27	X Test	125	80
28	X Test X16 Stand	1094	820
30	Airport-ETAL	2184	1005
31	Airport-UTC Srv. Hangar Roof	168	46
32	Airport-Exp. Hangar Roof	329	70
35	North Prod. Test	110	80
36	X Test X24 Stand	775	173
37	X Test	105	80
38	X Test Roof	112	16
39	H Bldg	1208	580

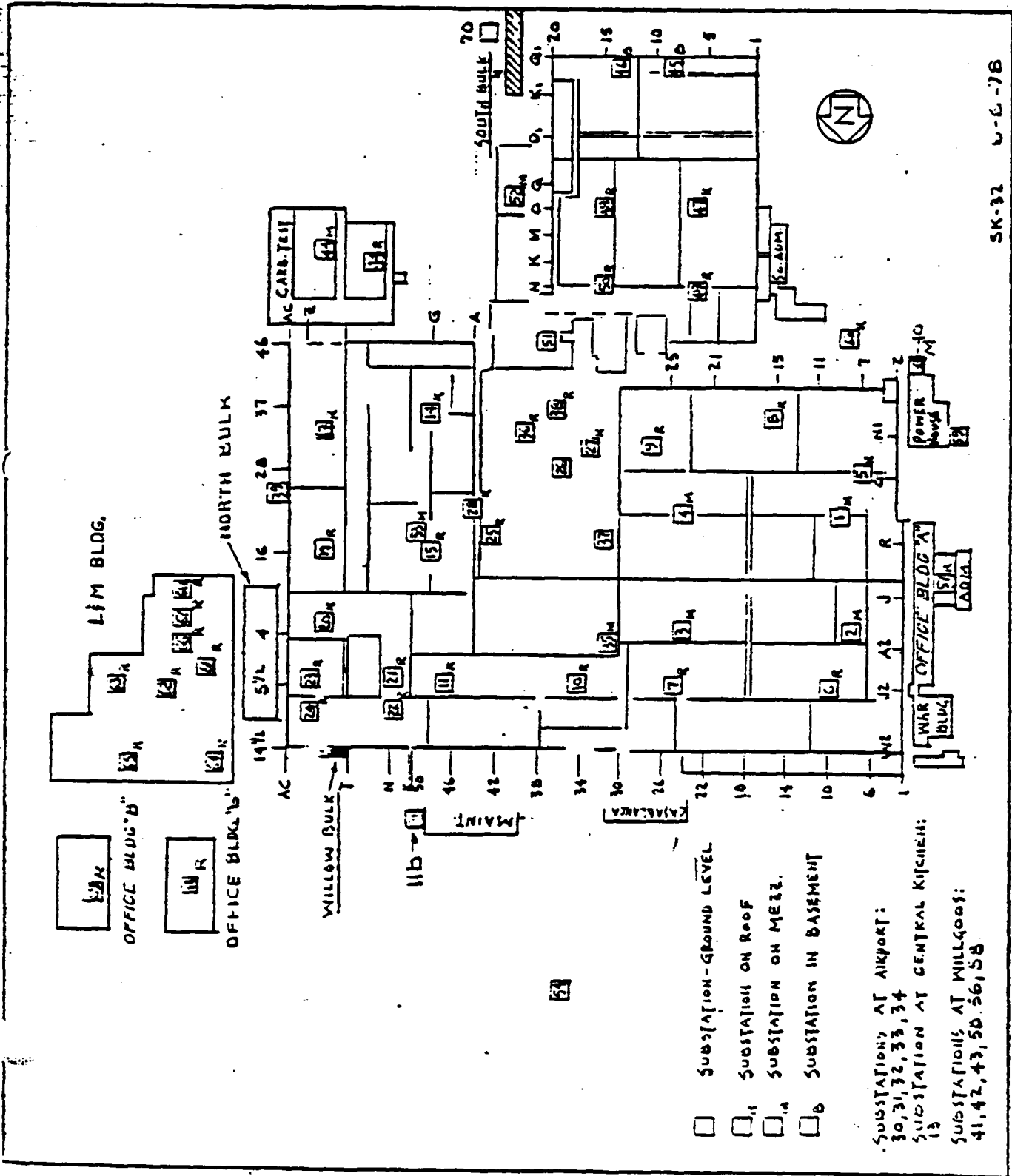
SUMMARY OF OIL-FILLED ELECTRICAL EQUIPMENT

LOCATIONS AND CAPACITIES

<u>SUBSTATION DESIGNATION</u>	<u>SUBSTATION* LOCATION</u>	<u>TOTAL CAPACITY (Gallons)</u>	<u>LARGEST UNIT CAPACITY (Gallons)</u>
44	S. Prod. Test	80	80
45	K Bldg Base	46	46
46	K Bldg Base	46	46
47	J Bldg Roof	125	80
48	J Bldg Roof	125	80
49	J Bldg Roof	91	46
50	J Bldg Roof	1022	260
51	N.E. Corner J Bldg	991	780
52	X-Test Roof	92	46
53	F Bldg Roof	350	350
57	Off Bldg A Top Floor	46	46
59	N.W. Corner Pwr. House	543	497
60	Chilled Water Bldg	1095	650
KPT	South Klondike	120	40
NK4	North Klondike	1221	242
XO	Tie Down Klondike	120	40

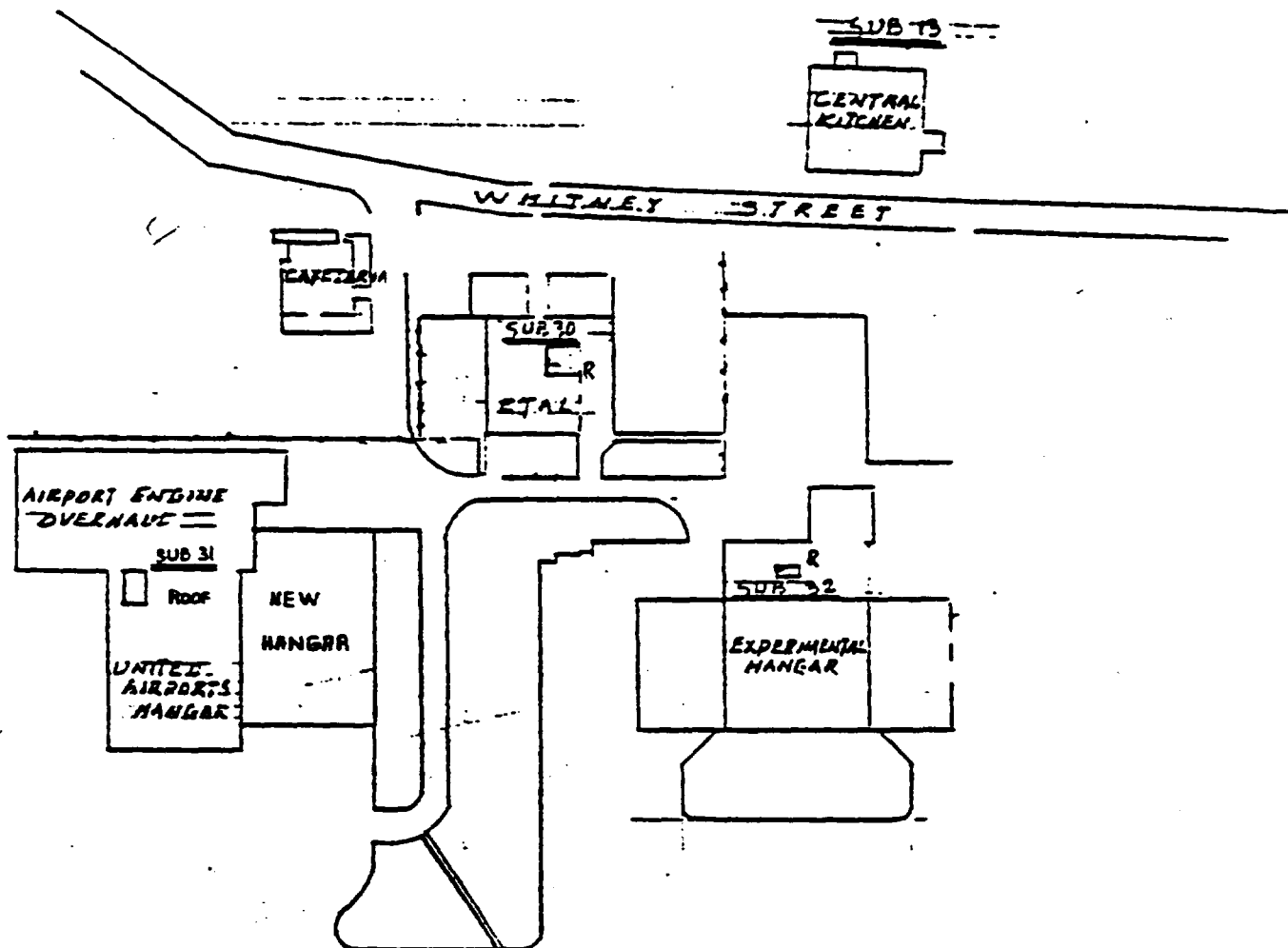
* Substation locations are shown on the attached drawings

** Transformers at these substations will be replaced by dry transformers during 1989.



SK-32 U-C-78

SUBSTATION LOCATIONS
AIRPORT & RESEARCH



■ SUBSTATION - GROUND LEVEL

□ SUBSTATION ON ROOF

EXHIBIT D
EVACUATION PLAN

In the event of a sudden and uncontrollable occurrence such as a fire, explosion, or major uncontrollable chemical spill, and if the degree of risk precludes making an effort to stop or diminish the effects of the occurrence, the area of the occurrence should be evacuated immediately and in an orderly and efficient manner. Employees should utilize any of several exits (described below) available at the treatment areas. The public address system will be used to notify all sections of the Concentrated Waste Treatment Area of emergency instructions.

Once evacuation has been called, employees shall proceed to the nearest building exit, leave the area, and assemble in front of the Maintenance Building on Willow Street immediately for check in. Employees evacuating from the Klondike PCB storage building and the Colt Street treatment plant should also proceed to the front of the Maintenance Building on Willow Street immediately for check in using any available transportation. If transportation is not available, employees shall assemble at the following locations and await further instructions.

- Klondike PCB Storage Building: airport perimeter road
- Colt Street Treatment Plant: entrance gate at Colt Street.

A complete description of evacuation routes is presented below. Building maps, designating the building exits described below as possible evacuation routes are provided in Exhibit 1.

A) CONCENTRATED WASTE TREATMENT PLANT - Main Building (CWPT-1)

1) Pedestrian exit doors:

- a) South side, ground level (level between basement and first floor). Exit under treatment platform to outside door on south side or into Main Building to outside on east side.
- b) East side, first floor exits to treatment plant yard.
- c) South side, platform level (level between first and second floor). Exits across treatment platform and down stairs to south side outside door or into Main Building and to outside door on east side.

2) Other exits:

- a) West side, ground level - folding exit doors to treatment plant yard.
- b) East side, first floor, transporter repair area - overhead exit door to treatment plant yard.

B) CONCENTRATED WASTE TREATMENT PLANT - Waste Storage Building (CWTP-2)

1) Pedestrian door exits:

- a) North side, first floor exit to treatment plant yard.
- b) West side, first floor exit to treatment plant yard.

2) Other Exits:

- a) West side, first floor overhead door exits to treatment plant yard.

C) CONCENTRATED WASTE TREATMENT PLANT - Storage Building A (CWTP-5)

1) Pedestrian door exits:

- a) West side of building, exit to treatment plant yard.
- b) South side of building.

2) Overhead door exits:

- a) Four on west side of building, exit to treatment plant yard.

D) CONCENTRATED WASTE TREATMENT PLANT - STORAGE BUILDING B (CWTP-6)

1) Pedestrian door exits:

- a) North side of building, exit to treatment plant yard.

2) Overhead door exits:

- a) Three on north side of building, exit to treatment plant yard.

E) CONCENTRATED WASTE TREATMENT PLANT - Yard Area

- 1) Fence exits are located on the east, west, and south sides of the yard, exit to maintenance building area, Willowbrook Road, and Willow Street, respectively.

F) PRE-TREATMENT PLANT

1) Pedestrian door exits:

- a) South side.
- b) East side.

2) Other Exits:

- a) East side, overhead doors.

G) KLONDIKE PCB STORAGE BUILDING

- 1) Truck loading pad has open wall on east side.
- 2) Barrel storage area has overhead door on east side.
- 3) From either exit proceed through the fence gate and to the airport perimeter road.

H) COLT STREET TREATMENT PLANT

1) Pedestrian door exits:

- a) South side of control building, upper level, exit via road to gate at Colt Street.
- b) South side of control building, truck loading area, lower level, exit via road to gate at Colt Street.
- c) North side of control building, upper level, exit onto rapid mix tank and use stairs at southwest corner, sidewalk and road to gate at Colt Street (NOTE: Use this route to exit from lower level pump room).
- d) West side of control building from oil pump room, lower level, exit via road to gate at Colt Street.
- e) South side of thickener gallery, exit via stairs, walk and road to gate at Colt Street.

2) Overhead door exits:

- a) Three doors on west side of control building, truck loading area, lower level, exit via road to gate at Colt Street.
- b) One door on south of control building, loading dock, upper level, exit via road to gate at Colt Street (NOTE: This exit has a four foot drop to grade and is to be used only if the personnel door is not usable).

3) Tanks and grounds:

- a) Rapid mix tank and oil separator walkways, use stairs at southwest corner, sidewalk and road to gate at Colt Street.

- b) Thickener tank walkways, use stairs on south side, sidewalk and road to gate at Colt Street.
- c) Clarifiers and neutralization tank walkways, use stairs on west side and road to gate at Colt Street.
- d) Other points on this site, use most direct safe route to gate at Colt Street.

4. Emergency Communication

As soon as possible after the occurrence, the following notification procedure should be followed:

FIRE HEADQUARTERS

EXT 5111

After the above are notified, the Fire Dispatcher will resume the notification of emergency coordinators listed on page D-6, from the beginning.

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SPCC/CONT. PLAN
EXHIBIT D
NOVEMBER 1990 REV. NO. 0

EXHIBIT 1

EVACUATION ROUTES

**US EPA New England
RCRA Document Management System
Image Target Sheet**

RDMS Document ID # 2562

Facility Name: PRATT & WHITNEY - MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-1B

Purpose of Target Sheet:

☒ **Oversized (in Site File)** ☐ **Oversized (in Map Drawer)**

☐ **Page(s) Missing (Please Specify Below)**

☐ **Privileged** ☐ **Other (Provide Purpose Below)**

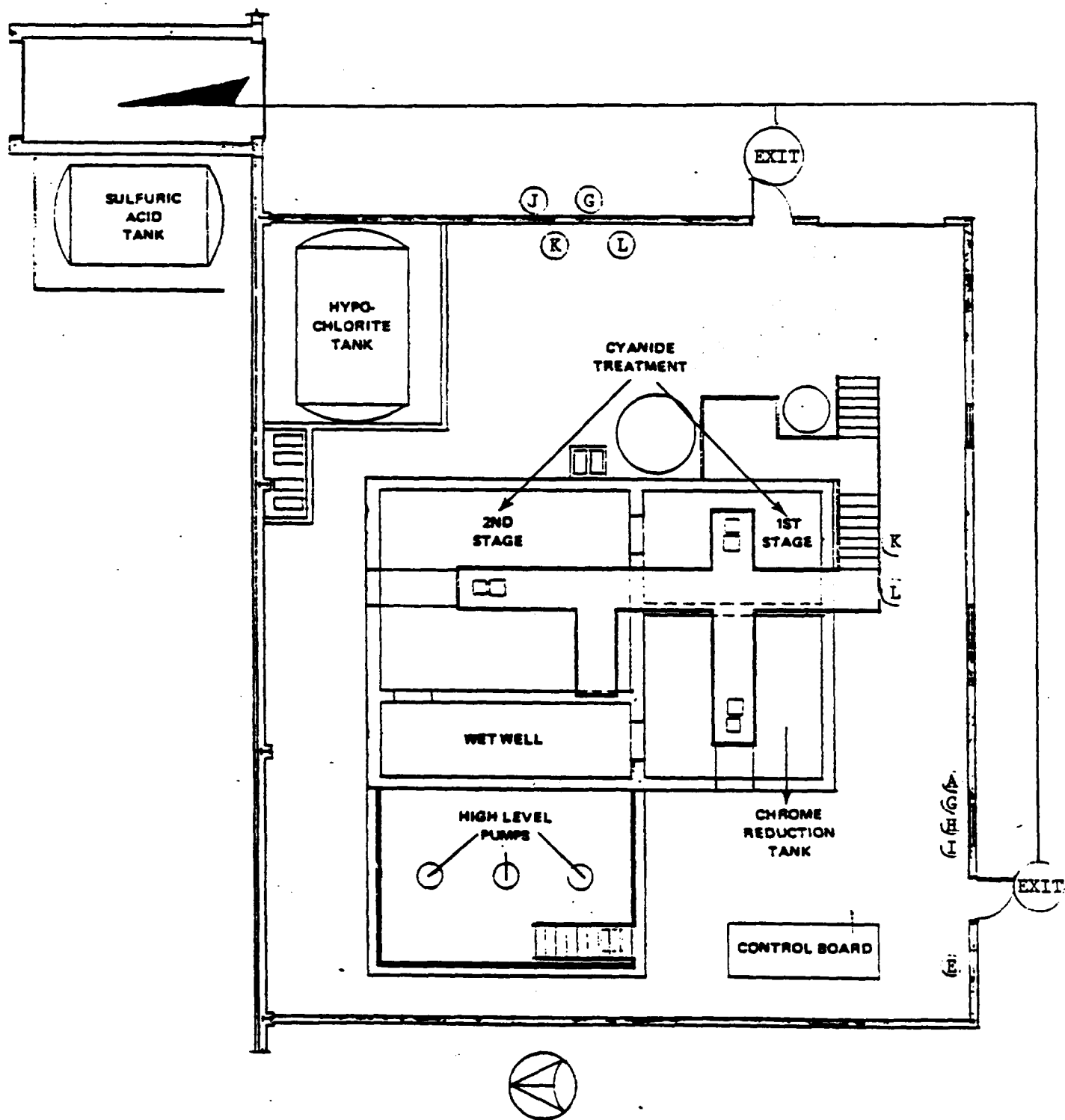
Description of Oversized Material, if applicable:

EXHIBIT 1: EVACUATION ROUTES

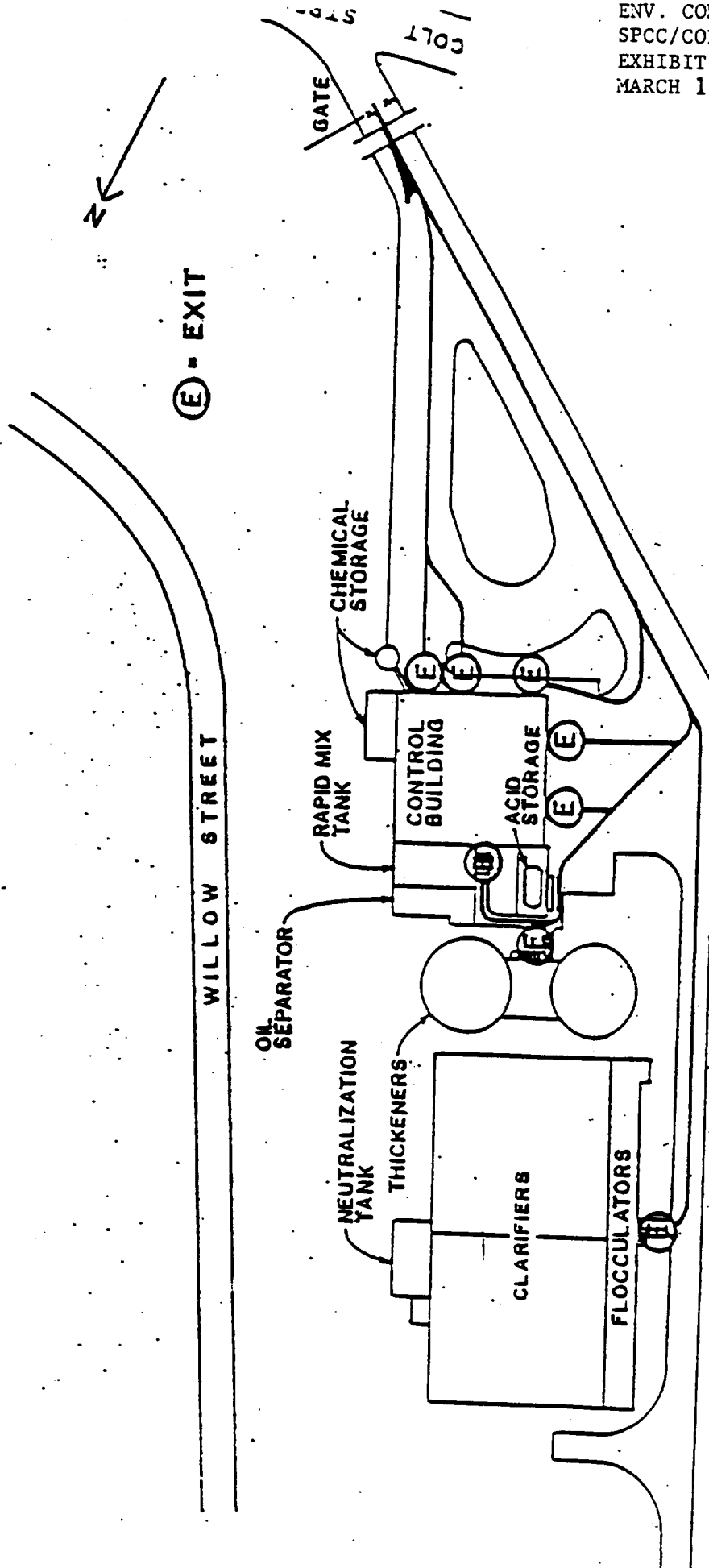
☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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PRE-TREATMENT PLANT

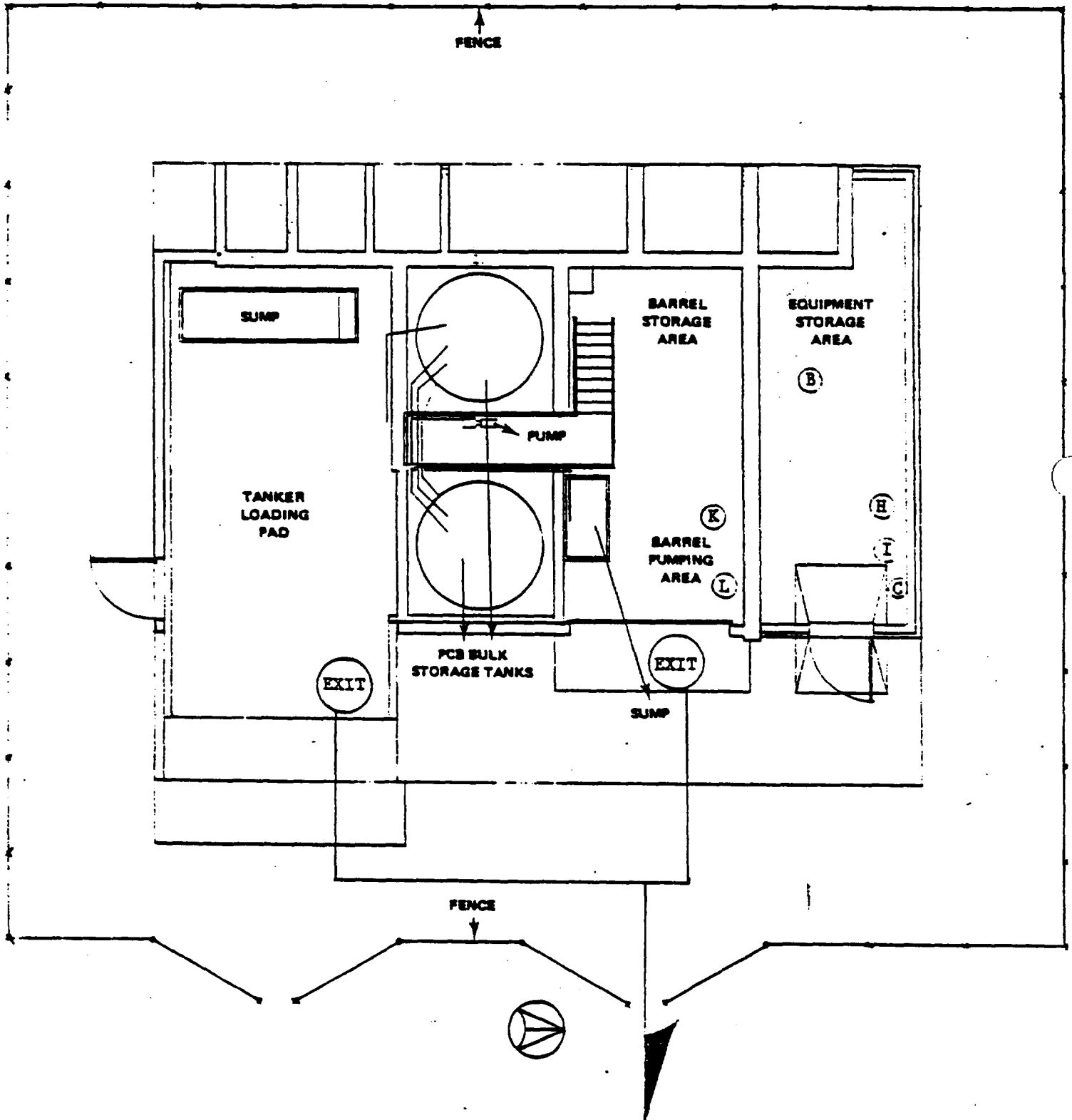


COLT STREET TREATMENT PLANT EVACUATION PLAN



P&W - EH
ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT 1
MARCH 1990 REV. NO. 0

KLONDIKE PCB STORAGE BLDG.



P&W - EH PAGE 1 OF 5
ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT E
NOVEMBER 1990 REV. 0

EXHIBIT E

EMERGENCY EQUIPMENT INVENTORY

1. Concentrated Waste Treatment Plant - Main Building (CWTP-1)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels, transporters, and pumps
- 3) Soda ash, absorbent material, and oil spill control booms

B) COMMUNICATION EQUIPMENT

- 1) Telephones - two (2) in office and one (1) just inside the Main Building door on the east side.
- 2) PA System

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 15 lb. carbon dioxide, first floor
- 2) 2.5 gal. water, first floor
- 3) 6 lb. ABC, second floor

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, aprons, gloves
- 2) Respirators
- 3) Scott Air Paks - two (2) on first floor; 30-minute duration
- 4) Emergency shower
 - a) Platform
 - b) Outside office door
 - c) Basement
- 5) Eye Wash Station
 - a) Inside east door
 - b) Basement
 - c) Laboratory

2. Concentrated Waste Treatment Plant - Barrel Storage Building (CWTP-2)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels
- 3) Sawdust and absorbent material

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside
- 2) 6 lb. ABC, inside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shield, boots, aprons, gloves
- 2) Shower - northeast corner
- 3) Eye wash station - northeast corner

3. Concentrated Waste Treatment Plant - Transporter Storage Pad (CWTP-4)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels
- 3) Sawdust and absorbent material

B) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shield, boots, aprons, gloves
- 2) Eye wash station

4. Concentrated Waste Treatment Plant - Storage Building A (CWTP-5)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels
- 3) Sawdust and absorbent material

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside
- 2) 6 lb. ABC, inside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, aprons, gloves
- 2) Eye wash station - inside on south wall

5. Concentrated Waste Treatment Plant - Storage & Building B (CWTP-6)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels
- 3) Sawdust and absorbent material

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside
- 2) 6 lb. ABC, inside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, aprons, gloves
- 2) Eye wash station - inside on south wall

6. Pre-Treatment Plant

A) SPILL CONTROL EQUIPMENT

- 1) Brooms
- 2) Barrels
- 3) Pump, hose

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Sprinkler System
- 2) 15 lb. carbon dioxide extinguisher

D) PERSONNEL SAFETY EQUIPMENT

- 1) Face shield, boots, aprons, gloves
- 2) Scott Air Paks
- 3) Shower and eye wash stations
 - a) Next to sink on south side
 - b) East Wall

7. Klondike PCB Storage Building

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes, and brooms
- 2) Barrels
- 3) Speedi-Dri

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Fire hydrant
- 2) 30 lb. dry chemical extinguisher

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, aprons, gloves
- 2) Respirators
- 3) Shower and eye wash station

a) Near barrel pump in storage room

8. Colt Street Treatment Plant

A) SPILL CONTROL EQUIPMENT

- 1) Shovels, rakes and brooms
- 2) Pump, hose, and wet-vac
- 3) Sodium bicarbonate

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Fire hydrant
- 2) Carbon dioxide extinguisher
- 3) Dry chemical extinguisher

D) PERSONNEL SAFETY EQUIPMENT

- 1) Face shield, boots, gloves
- 2) Shower and eye wash station

a) Main Level - outside office
b) Lower Level

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ENV. COMP. MANUAL
SPCC/CONT. PLAN
EXHIBIT F
NOVEMBER 1990 REV. NO. 1

EXHIBIT F

EMERGENCY EQUIPMENT LOCATIONS

**US EPA New England
RCRA Document Management System
Image Target Sheet**

RDMS Document ID # 2562

Facility Name: PRATT & WHITNEY - MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-1B

Purpose of Target Sheet:

☒ **Oversized (in Site File)** ☐ **Oversized (in Map Drawer)**

☐ **Page(s) Missing (Please Specify Below)**

☐ **Privileged** ☐ **Other (Provide Purpose Below)**

Description of Oversized Material, if applicable:

**EXHIBIT F: SPILL CONTROL AND EMERGENCY
RESPONSE EQUIPMENT**

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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EXHIBIT F
NOVEMBER 1990 REV. NO. 1

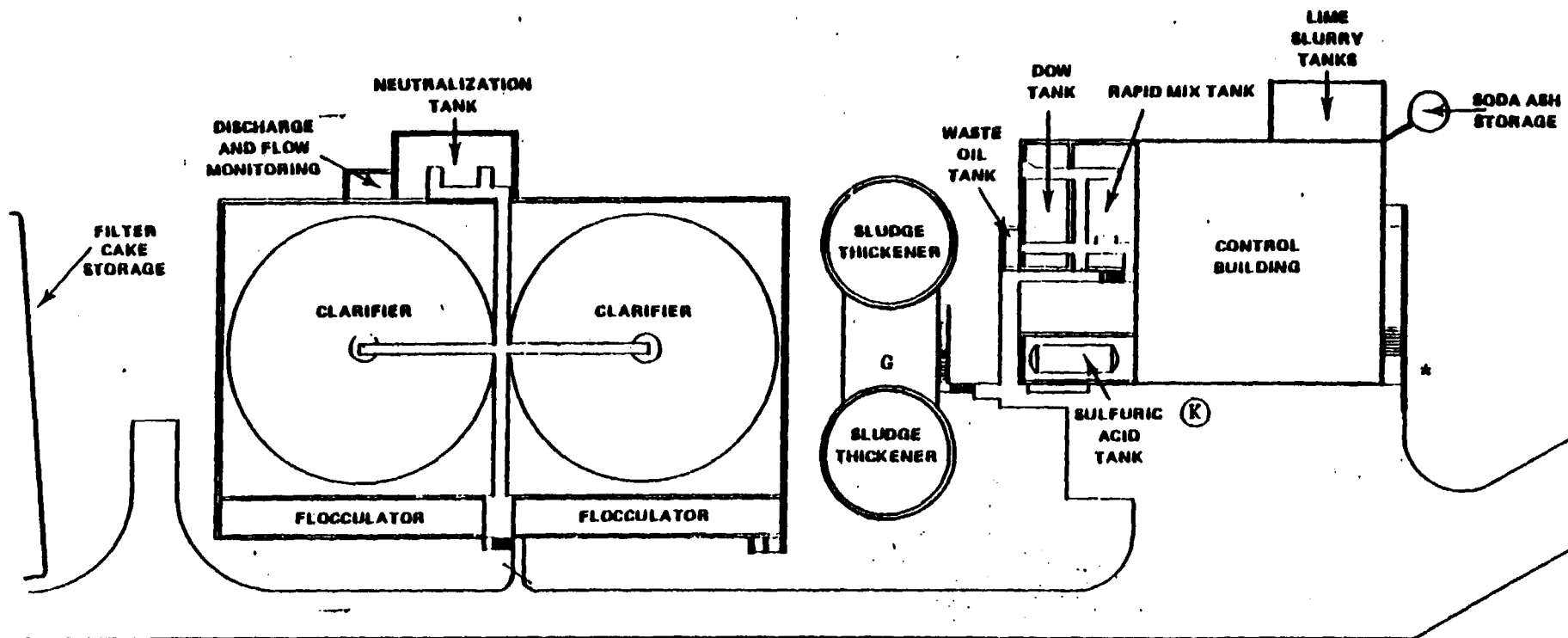
KEY

EMERGENCY EQUIPMENT LOCATION MAPS

- A - Shovels, rakes, and brooms
- B - Barrels
- C - Sodium bicarbonate or absorbent materials
- D - Sawdust
- E - Telephone
- F - PA System or speaker
- G - Fire extinguisher
- H - Protective clothing, face shields, boots, gloves, aprons
- I - Respirators
- J - Scott Air Paks
- K - Emergency showers
- L - Emergency eye wash
- M - Transporters
- N - Pumps

NOTE: No circle around a letter indicates item present on another floor in the approximate location.

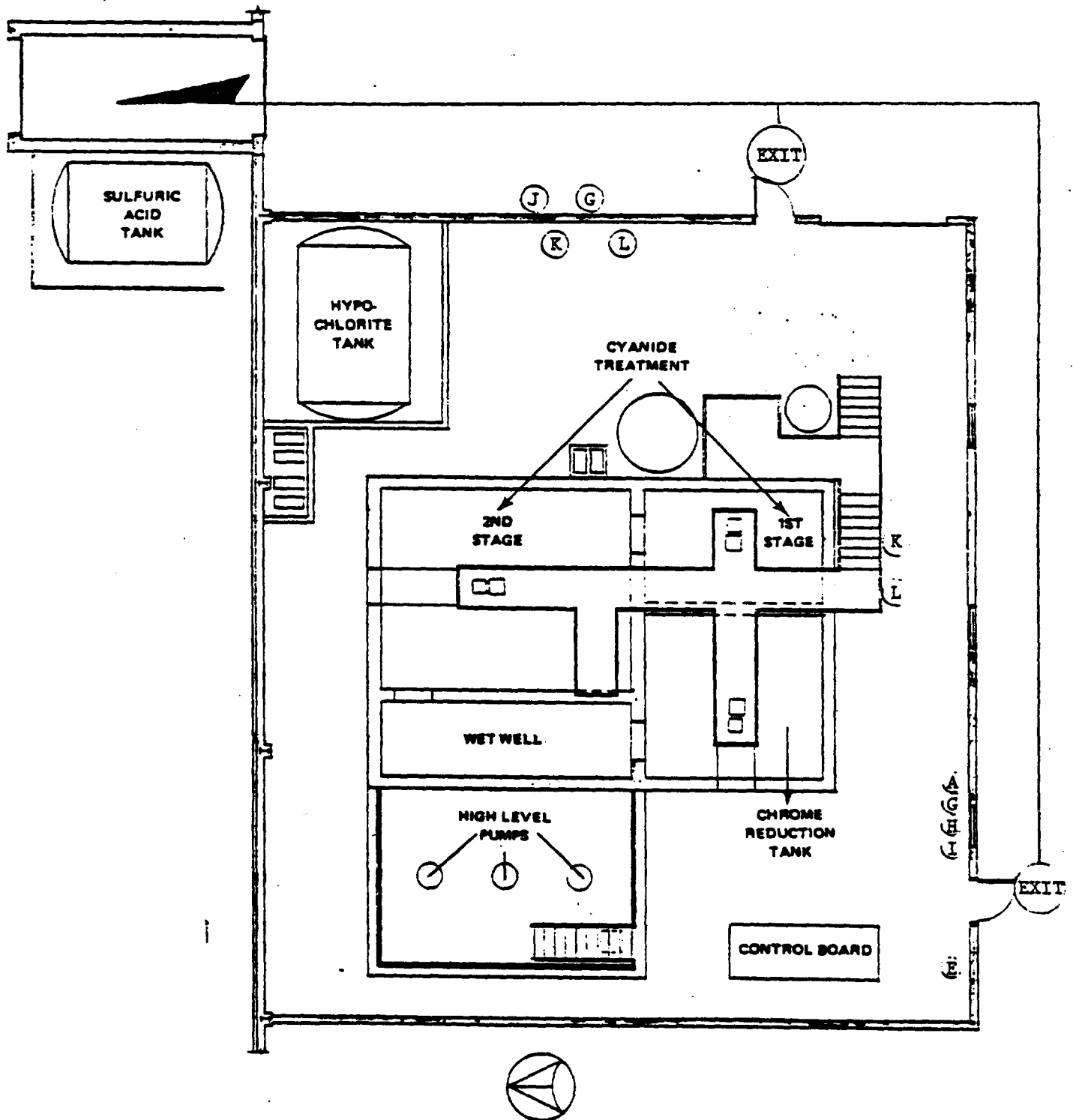
COLT ST. TREATMENT PLANT LOCATION MAP



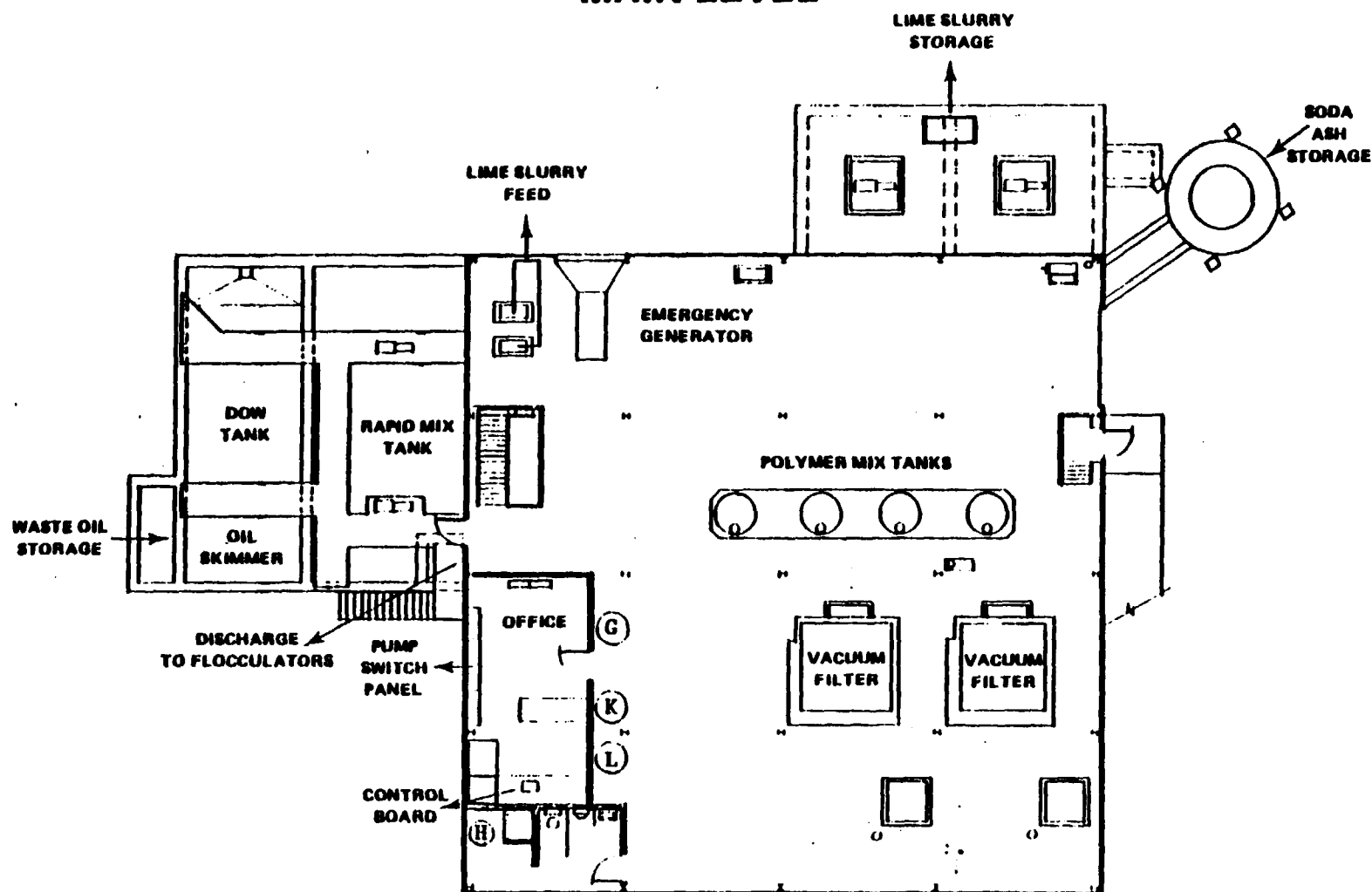
*Fire Hose

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EXHIBIT F
NOV. 1990 REV. NO. 1

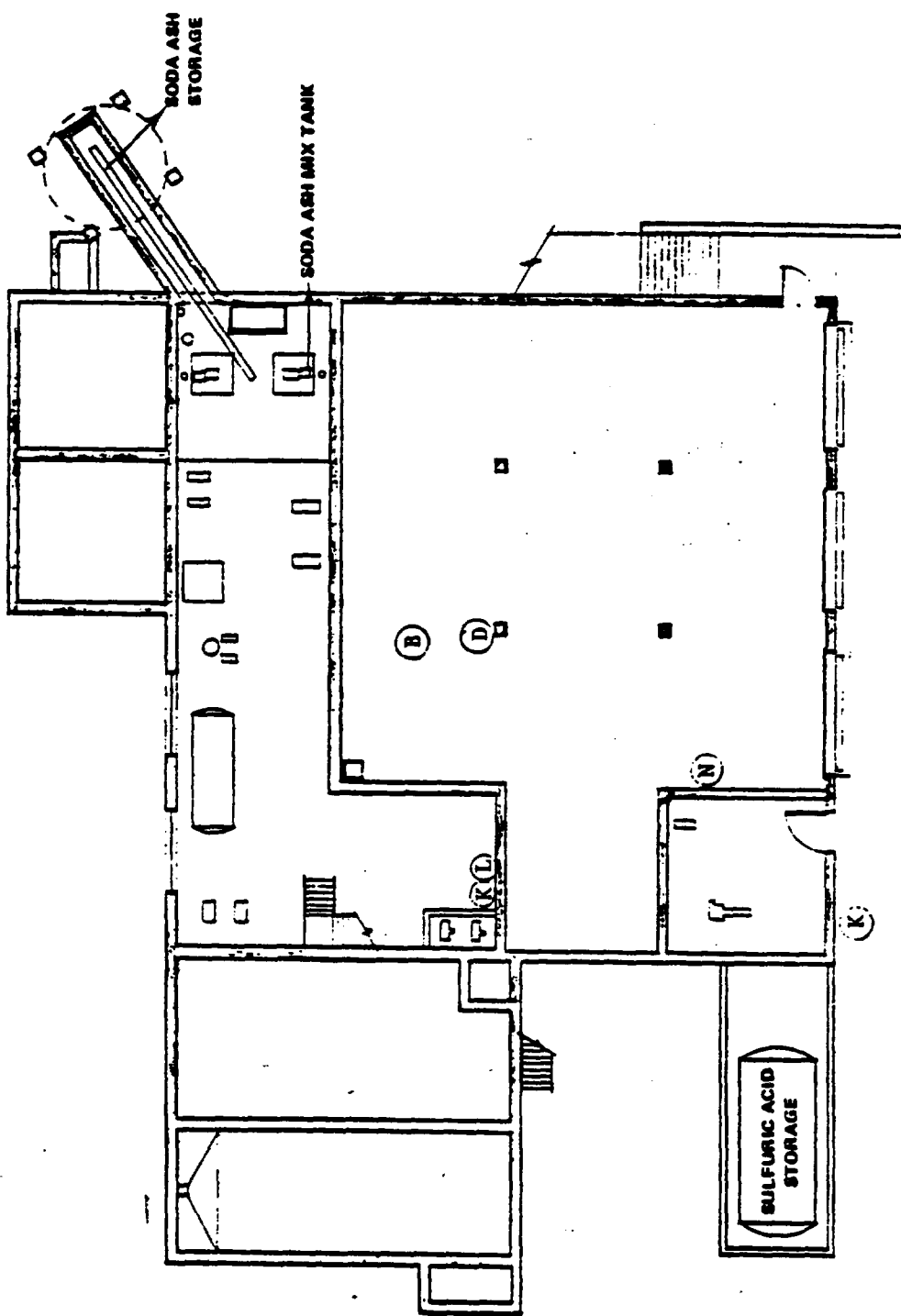
PRE-TREATMENT PLANT



COLT ST. TREATMENT PLANT MAIN LEVEL



COLT ST. TREATMENT PLANT
LOWER LEVEL



KLONDIKE PCB STORAGE BLDG.

